



18V CORDLESS

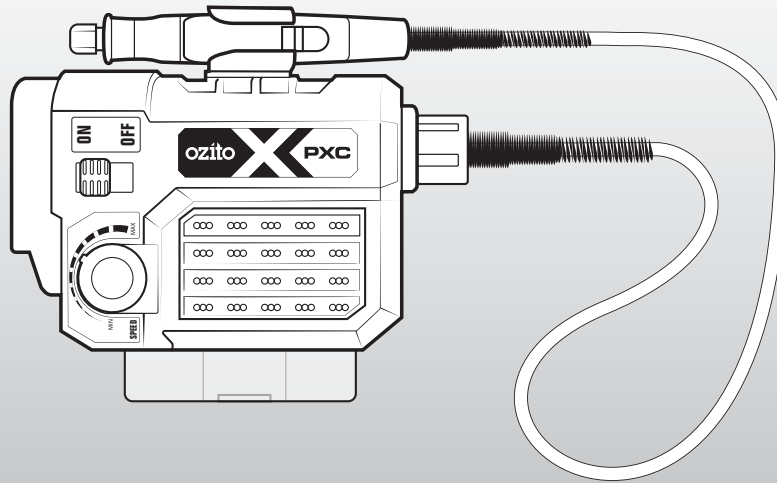
# ROTARY TOOL STATION

## INSTRUCTION MANUAL

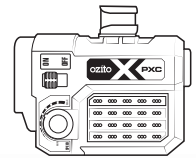
### SPECIFICATIONS

Input:	18V
No Load Speed:	5,000-33,000/min
Collet Size:	2.3 & 3.2mm
Weight:	3.74kg

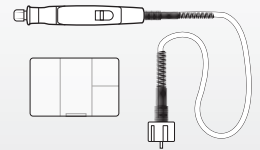
[ozito.com.au](http://ozito.com.au)



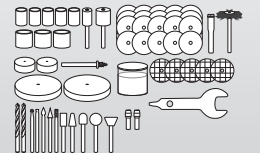
### STANDARD EQUIPMENT



Cordless Rotary Tool Station



Flexible Shaft & Accessory Case



40 x Sanding Discs, Screw Mandrel, 5 x Diamond Engravers, 2 x Drum Mandrels, Wire Brush, 2 x Drill Bits (2.3 & 3.2mm), Polishing Compound, 4 x Felt Wheels, Cone Mandrel, 8 x Sanding Bands, 5 x Cut-Off Wheels, 5 x Stone Grinders, 2 x Collets (2.3 & 3.2mm) & Spanner

**PXRTS-018**

**5 YEAR**  
REPLACEMENT WARRANTY

## 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.

### WARNING

The following actions will result in the warranty being void.

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

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.

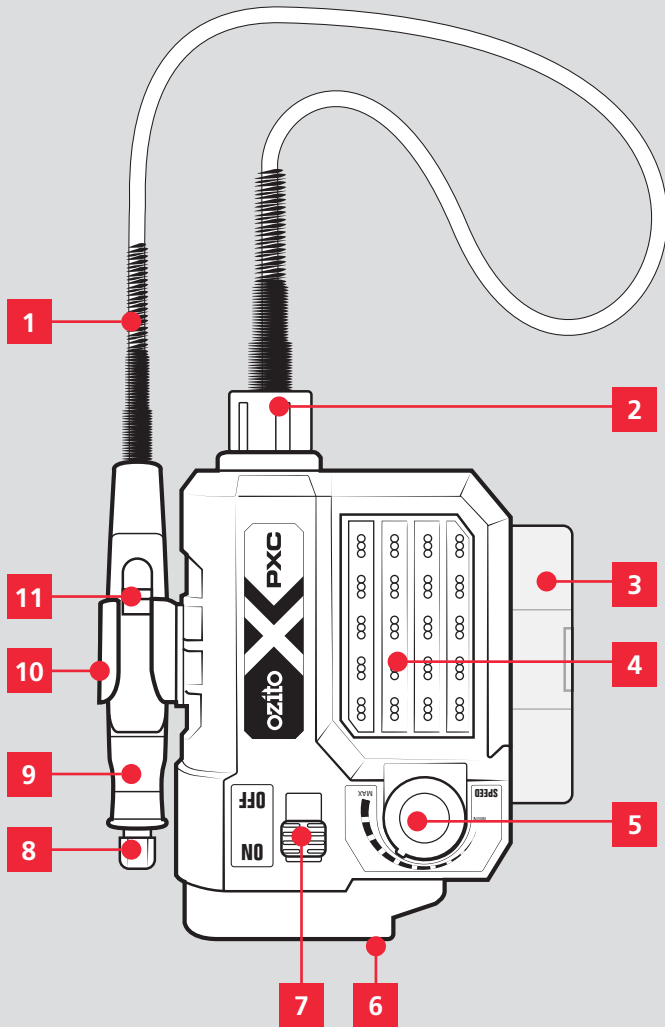
### 5 YEAR REPLACEMENT WARRANTY

Your Product is guaranteed for a period of 60 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. **Lithium Ion batteries and chargers are covered by a 36 month warranty** and are excluded from the warranty extension. Warranty excludes consumable parts.

# KNOW YOUR PRODUCT

## CORDLESS ROTARY TOOL STATION

- |                             |                       |
|-----------------------------|-----------------------|
| 1. Flexible Shaft           | 7. Power Switch       |
| 2. Flexible Shaft Connector | 8. Collet Nut         |
| 3. Storage Case             | 9. Rotary Tool Handle |
| 4. Storage Slots            | 10. Handle Storage    |
| 5. Speed Dial               | 11. Spindle Lock      |
| 6. Battery Seating          |                       |



## BATTERY & CHARGER

This tool is compatible with all batteries & chargers from the Ozito PXC range.

### ONLINE MANUAL

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



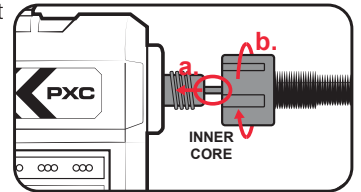
# SETUP & PREPARATION

## 1. FITTING ACCESSORIES

**WARNING!** ENSURE THE TOOL IS SWITCHED OFF AND THE BATTERY IS REMOVED BEFORE PERFORMING ANY OF THE FOLLOWING TASKS.

### Assembling the Flexible Shaft

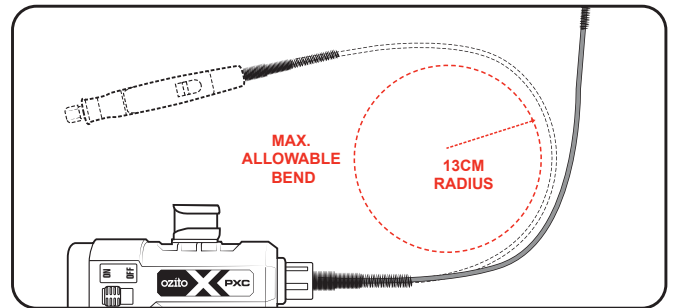
1. Press the end of the flexible shaft connector firmly against the square socket.



**Note:** Ensure the inner core is flush with the socket before tightening.

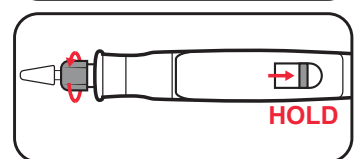
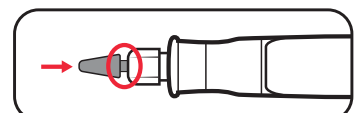
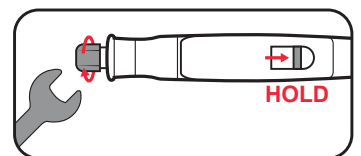
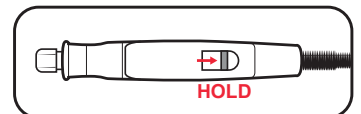
2. Screw the flexible shaft connector onto the tool.

**WARNING!** ENSURE THAT THERE ARE NO KINKS OR BENDS IN THE FLEXIBLE SHAFT BEFORE OPERATION. OVER BENDING THE SHAFT CAN GENERATE EXCESSIVE HEAT WHICH CAN DAMAGE THE TOOL.



### Attaching Accessories

1. Slide back and hold the spindle lock.
2. Using the supplied wrench, slightly loosen the collet nut.
3. Insert the shaft of the accessory into the collet until only 2-3mm of it is left out.
4. With the spindle lock engaged, finger tighten the collet nut until the accessory shank is firmly gripped by the collet.



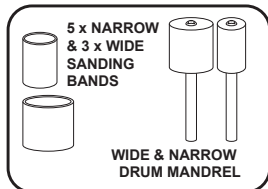
**Note:** Avoid excessive tightening of the collet nut when no accessory is inserted, as this may cause the collet to get stuck in the collet nut. If this happens, push the shank of an accessory into the hole of the collet nut.

**5 YEAR**  
REPLACEMENT WARRANTY

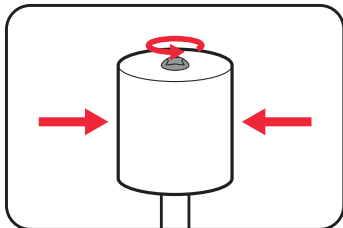
## 2 ACCESSORY SELECTION

### Sanding Bands

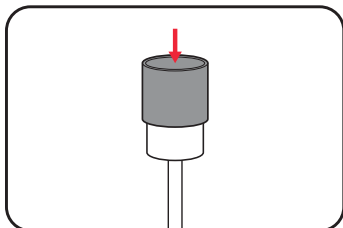
**Materials:** timbers, plastics, soft metals.  
Sanding bands can be used for shaping wood, smoothing edges and sanding inside curves. The drum mandrels allow you to easily replace the sanding bands when they become worn and lose their grit.



1. Using the small screwdriver on the back of the spanner, loosen the small screw on the drum mandrel to contract the drum.



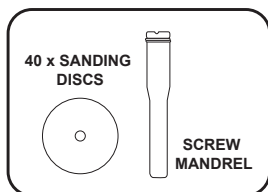
2. Slide a sanding band onto the drum and retighten the screw to hold the band in place.



**WARNING!** BEFORE EACH USE, ENSURE THAT THE DRUM IS SUFFICIENTLY EXPANDED TO SECURE THE BAND DURING USE. LOOSE ACCESSORIES MAY FLY OFF AND CAUSE INJURY TO THE OPERATOR AND/OR BYSTANDERS.

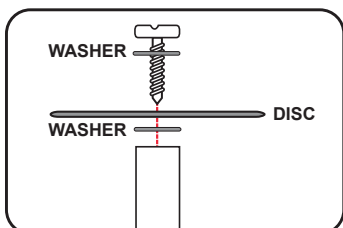
### Sanding Discs

**Materials:** timbers, plastics, soft metals.  
Sanding discs are good for smoothing and shaping wood or fibreglass, stripping paint and removing rust. The flexible discs make them good for sanding contoured surfaces and hard to reach areas. Attach these to a screw mandrel for use and replace them when worn.



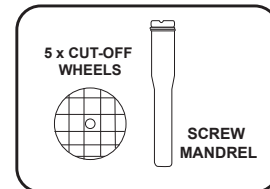
1. Loosen and remove the small screw from the top of the screw mandrel. Also remove one of the washers from the mandrel.

2. Slide a sanding disc onto the mandrel, then replace the washer and screw to hold the disc in place.



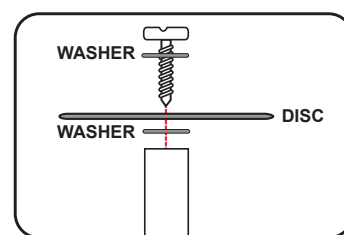
### Cut-Off Wheels

**Materials:** plastics & soft metals.  
These emery discs can be used for shortening bolts, reslotting stripped screwheads, cutting through small rods and tubing or making rectangular holes in sheet metal. Attach these to a screw mandrel for use and replace them when worn.



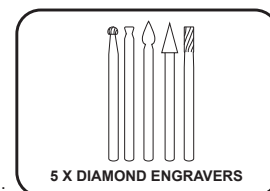
1. Loosen and remove the small screw from the top of the screw mandrel. Also remove one of the washers from the mandrel.

2. Slide a cut-off wheel onto the mandrel, then replace the washer and screw to hold the disc in place.



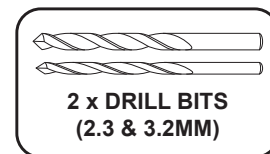
### Diamond Engravers

**Materials:** timbers, plastics, hard & soft metals, jewellery, and scrimshaw.  
These engravers have diamond particles embedded and are ideal for fine detail work on harder materials such as jewellery, ceramic, hardened steel or glass. They can also be used to touch up and finish surfaces.



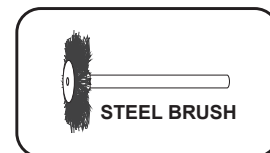
### Drill Bits

**Materials:** timbers, plastics and metals.  
These are ideal for making small holes in workpieces. Change out the collets to suit the size of the drill bit shank.



### Steel Brush

**Materials:** brass, copper, pewter, aluminium, stainless steel.  
The steel brushes are ideal for removing rust and corrosion, polishing, deburring and blending surfaces, as well as cleaning electrical components.



**Note:** Allow the tips of the wire brushes to do the work. Do not apply excessive pressure or use the sides of the bristles on the work surface as this may cause the bristles to wear and break.

# OPERATION

## Grinding Stones

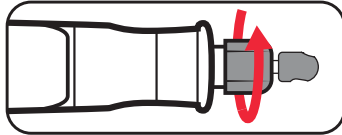
**Materials:** soft and hard metals (including stainless steel), ceramic, stone, glass.

The aluminium oxide grinding stones are great for cleaning up welded joints, deburring castings, removing rust, cutting rivets, sharpening tool blades or just general purpose grinding on metals.



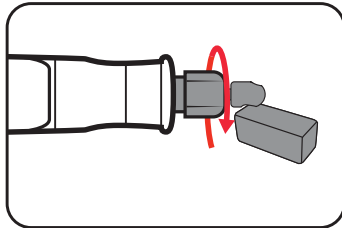
The grinding stones will wear out with use, and make subsequent use uneven and hard to control for precision work. These can be reshaped using the method below.

1. Secure the unbalanced grinding stone in the rotary tool.



2. Secure a whet stone (not supplied) to a worksurface with clamps.

3. Turn on the rotary tool and let the revolving grinding stone run lightly against the whet stone. This will remove high spots on the accessory.



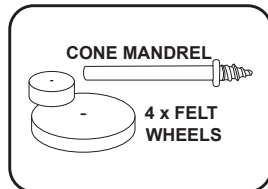
**Note:** Maintain a firm grip on the rotary tool and the whet stone. Do not apply excessive pressure against the spinning grinding stone, let the whet stone and tool do the work.

**WARNING!** WEAR SAFETY GLASSES, WELL FITTING GLOVES AND BE MINDFUL ABOUT HAND PLACEMENT WHEN HOLDING ROTARY TOOL AGAINST THE WHET STONE.

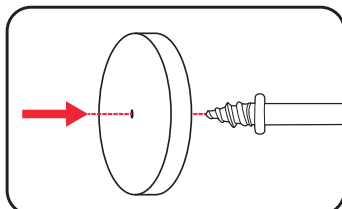
## Felt Wheels

**Materials:** plastics, jewellery, soft and ferrous metals, stone, glass and ceramics

The felt polishing wheels and tips can be used to smooth semi-rough surfaces, cleaning and polishing. The cloth wheel is ideal for polishing silverware or car detailing to a high lustre and restoring door or window hardware. Attach these to the cone mandrel for use.



1. Thread the felt wheel straight down onto the cone mandrel and tighten all the way down to the collar of the shank.



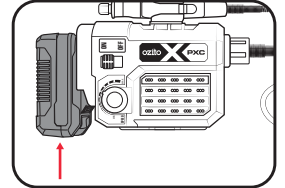
## 3. CONTROLS

**WARNING!** WEAR HEARING & EYE PROTECTION DURING OPERATION. USE A DUST MASK FOR DUSTY OPERATIONS.

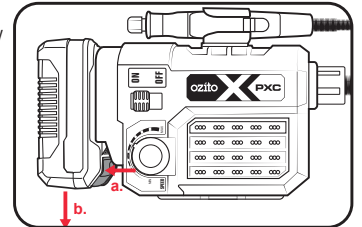
**WARNING!** ALWAYS USE CLAMPS TO SUPPORT WORKPIECE.

### Installing The Battery Pack

1. Slide the battery into the tool base until it clicks into place.

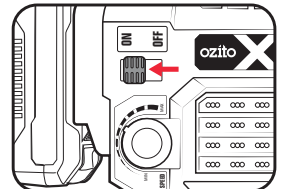


2. To remove, hold down the battery release button and then slide the battery out.

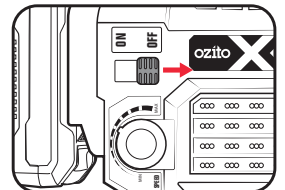


### Switching The Rotary Tool On & Off

1. Slide the power switch to the ON position to start the rotary tool.



2. To switch the tool off, slide the power switch to the OFF position.

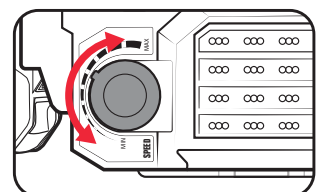


**Note:** Allow the rotary head to come to a complete stop before setting the handle down.

**WARNING!** ALWAYS HOLD THE ROTARY TOOL HANDLE BY THE INSULATED GRIPPING SURFACE WHEN IN USE.

### Adjusting The Speed

1. Turn the speed dial to the desired setting.



# MAINTENANCE



**WARNING!** BEFORE CLEANING OR CARRYING OUT ANY MAINTENANCE PROCEDURE, ENSURE THAT THE BATTERIES HAVE BEEN REMOVED.

## Cleaning

- Keep the ventilation slots of the tool clean at all times to ensure efficient operation.
- After each use, blow air through the tool housing to ensure it is free from all dust, dirt, etc. Build up of dust or dirt particles may cause the tool to overheat and shorten the life of the tool.
- If the housing of the tool requires cleaning, do not use solvents. Use of a cloth only is recommended.
- Never allow any liquid to get inside the tool, never immerse any part of the tool into liquid.

## Lubricating The Inner Core

The inner core of the flexible shaft should be lubricated after several hours of operation to prevent it from overheating.

1. Unscrew the flexible shaft from the rotary tool base.
2. Pull out the inner core from the flexible shaft.
3. Apply an even coat of multi-purpose grease onto the entire surface of the inner core.
4. Re-insert the inner core into the flexible shaft and reassemble the tool.

## Storage

When not in use, the tool should be stored in a dry, frost free location, keep out of children's reach.

The accessories can be stored in the storage case or inserted into the storage slots for quick access.

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

# 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)

# DESCRIPTION OF SYMBOLS

	Volts		Direct Current
	Revolutions per minute		No load speed
	Millimetre		Wear eye protection
	Regulatory Compliance Mark (RCM)		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.



# ELECTRICAL SAFETY



**WARNING!** When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

- Read the whole manual carefully and make sure you know how to switch the tool off in an emergency, before operating the tool. Save these instructions and other documents supplied with this tool for future reference.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- This appliance is compatible and only to be used with all batteries & chargers from the Ozito PXC range. Refer to the PXC battery and charger manuals for information regarding charging, use and storage.
- **WARNING!** Always remove the battery from the tool:
  - when the batteries are to be charged,
  - when the tool is left unattended,
  - when the tool is being checked, cleaned, or having maintenance work done,
  - when the tool is to be stored,
  - or if the tool vibrates abnormally.
- Do not combine different types of batteries or new and used batteries.
- Do not use modified or damaged batteries.



# TOOL WARNINGS (CONTINUED)

Safety warnings specific for grinding and abrasive cutting-off operations:

- a) Use only wheel types that are recommended for your power tool and only for recommended applications. For example: do not grind with the side of a cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- b) For threaded abrasive cones and plugs use only undamaged wheel mandrels with an unrelieved shoulder flange that are of correct size and length. Proper mandrels will reduce the possibility of breakage.
- c) Do not "jam" a cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut. Overstressing the wheel increases the loading and susceptibility to twisting or snagging of the wheel in the cut and the possibility of kickback or wheel breakage.
- d) Do not position your hand in line with and behind the rotating wheel. When the wheel, at the point of operation, is moving away from your hand, the possible kickback may propel the spinning wheel and the power tool directly at you.
- e) When wheel is pinched, snagged or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of wheel pinching or snagging.
- f) Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- g) Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback. Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- h) Use extra caution when making a "pocket cut" into existing walls or other blind areas. The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

# 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

- 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 a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- Do not let familiarity gained from frequent use of tools allow you to become complacent and

ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

## 4) Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

## 5) Battery tool use and care

- 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.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- 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.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- 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.
- Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
- 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.

## 6) 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.
- Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

# ROTARY TOOL STATION SAFETY WARNINGS

Avoid using power tools for long periods of time without breaks. Vibration from tools can be transmitted into your hands and arms.

Safety warnings common for grinding, sanding, wire brushing, polishing, carving or abrasive cutting-off operations:

- This power tool is intended to function as a grinder, sander, wire brush, polisher, carving or cut-off tool. 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.
- Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
- The rated speed of the grinding accessories must be at least equal to the maximum speed marked on the power tool. Grinding accessories running faster than their rated speed can break and fly apart.
- The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately controlled.
- The arbour size of wheels, sanding drums or any other accessory must properly fit the spindle or collet of the power tool. Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- Mandrel mounted wheels, sanding drums, cutters or other accessories must be fully inserted into the collet or chuck. If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and be ejected at high velocity.
- Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, sanding drum for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. 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.
- Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Always hold the tool firmly in your hand(s) during the start-up. The reaction torque of the motor, as it accelerates to full speed, can cause the tool to twist.
- Use clamps to support workpiece whenever practical. Never hold a small workpiece in one hand and the tool in the other hand while in use. Clamping a small workpiece allows you to use your hand(s) to control the tool. Round material such as dowel rods, pipes or tubing have a tendency to roll while being cut, and may cause the bit to bind or jump toward you.
- Never lay the power tool down until the accessory has come to a complete stop. The spinning

accessory may grab the surface and pull the power tool out of your control.

- After changing the bits or making any adjustments, make sure the collet nut, chuck or any other adjustment devices are securely tightened. Loose adjustment devices can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.
- Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

## Operations Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, sanding band, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. The operator can control kickback forces, if proper precautions are taken.
- Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- Do not attach a toothed saw blade. Such blades create frequent kickback and loss of control.
- Always feed the bit into the material in the same direction as the cutting edge is exiting from the material (which is the same direction as the chips are thrown). Feeding the tool in the wrong direction causes the cutting edge of the bit to climb out of the work and pull the tool in the direction of this feed.
- When using rotary file or cut-off wheels always have the work securely clamped. These wheels will grab if they become slightly canted in the groove, and can kickback. When a cut-off wheel grabs, the wheel itself usually breaks. When a rotary file grabs, it may jump from the groove and you could lose control of the tool.

## Safety warnings specific for wire brushing operations:

- Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush. The wire bristles can easily penetrate light clothing and/or skin.
- Allow brushes to run at operating speed for at least one minute before using them. During this time no one is to stand in front or in line with the brush. Loose bristles or wires will be discharged during the run-in time.
- Direct the discharge of the spinning wire brush away from you. Small particles and tiny wire fragments may be discharged at high velocity during the use of these brushes and may become imbedded in your skin.