

**CONTINENTAL TOOL**  
**GROUP**

# General Safety Information



**WARNING:** Risk of injury to persons. Read and understand operation instructions. Always become familiar with all the instructions and warnings before operating any pneumatic tool.

# Safety Information



## 7.2.2.3 GENERAL SAFETY RULES

- Multiple hazards. Read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the power tool. Failure to do so can result in serious bodily injury.
- Only qualified and trained operators should install, adjust or use the power tool.
- Do not modify this power tool. Modifications may reduce the effectiveness of safety measures and increase the risks to the operator.
- Do not discard the safety instructions – give them to the operator.
- Do not use a tool if the tool has been damaged.
- Warnings shall be given against the risk of explosion or fire due to the material being processed;
- Warnings shall be given against the risk of cutting.



## 7.2.2.4 PROJECTILE HAZARDS

- Failure of the work piece, of accessories, or even of the tool itself may generate high velocity projectiles.
- Always wear impact-resistant eye protection during operation of the tool. The grade of protection required should be assessed for each use.



## 7.2.2.5 ENTANGLEMENT HAZARDS

- Entanglement hazard - choking, scalping and/or lacerations can occur if neck ware, hair or gloves are not kept away from tool and accessories.

## 7.2.2.6 OPERATING HAZARDS

- Use of the tool may expose the operator's hands to hazards including crushing, impacts, cuts and abrasions and heat. Wear suitable gloves to protect hands.
- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
- Hold the tool correctly: be ready to counteract normal or sudden movements – have both hands available.
- Maintain a balanced body position and secure footing.
- Keep hands away from rotating or reciprocation accessories, spindles or other moving parts.
- Release the start and stop device in the case of an interruption of the energy supply
- Use only lubricants recommended by the manufacturer.



## 7.2.2.7 REPETITIVE MOTIONS HAZARDS

- When using a power tool, you may experience discomfort in your hands, arms, shoulders, neck, or other parts of your body.
- While using a power tool, position your body in a comfortable posture. Maintain secure footing and avoid awkward or off-balanced postures. Changing your posture during extended tasks may help avoid discomfort and fatigue.
- If you experience symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation, or stiffness, do not ignore these warning signs. Promptly tell your employer and consult a qualified health professional.

## 7.2.2.8 ACCESSORY HAZARDS

- Only use sizes and types of accessories and consumables that are recommended by the power tool manufacturer.



## 7.2.2.9 WORKPLACE HAZARDS

- Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces caused by use of the tool and also of trip hazards caused by the air line or hydraulic hose.
- Proceed with care in unfamiliar surroundings. Hidden hazards may exist, such as electricity or other utility lines.
- This power tool is not intended for use in potentially explosive atmospheres and is not insulated from coming into contact with electric power.
- Make sure there are no electrical cables, gas pipes etc. that could cause a hazard if damaged by use of the tool.



## 7.2.2.10 DUST AND FUME HAZARDS

- Dust from some work processes can cause cancer, birth defects or other respiratory diseases. Risk assessment of these hazards and implementation of appropriate controls is essential.

- If the pneumatic tool is used in a dust filled environment exhaust air can cause a dust hazard
- Dusts and fumes generated when using power tools can cause ill health (for example: cancer, birth defects, asthma and/or dermatitis); risk assessment of these hazards and implementation of appropriate controls of is essential.
- Risk assessment should include dust created by the use of the tool and the potential for disturbing existing dust.
- Operate and maintain the power tool as recommended in these instructions, to minimize dust or fume emissions
- Direct the exhaust so as to minimized disturbance of dust in a dust filled environment
- Where dusts or fumes are created, the priority shall be to control them at the point of emission.
- All integral features or accessories for the collection, extraction or suppression of airborne dust or fumes should be correctly used and maintained in accordance with the manufacturer's instructions.
- Select, maintain and replace the consumable/inserted tool as recommended in these instructions, to prevent an unnecessary increase in dust or fumes
- Use respiratory protection as instructed by your employer or as required by occupational health and safety regulations;



## 7.2.2.11 NOISE HAZARDS

- Unprotected exposure to high noise levels can cause permanent, disabling, hearing loss and other problems such as tinnitus (ringing, buzzing, whistling or humming in the ears);
- Risk assessment of these hazards and implementation of appropriate controls of is essential.
- Appropriate controls to reduce the risk may include actions such as damping materials to prevent work pieces from 'ringing'
- Use hearing protection as instructed by your employer or as required by occupational health and safety regulations;
- Operate and maintain the power tool as recommended in these instructions, to prevent an unnecessary increase in noise levels;
- Select, maintain and replace the consumable/inserted tool as recommended in these instructions, to prevent an unnecessary increase in noise.



## 7.2.2.12 VIBRATION HAZARDS

- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms;
- Wear warm clothing when working in cold conditions and keep your hands warm and dry;
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the power tool, and tell your employer. You should also seek medical advice from a qualified occupational health professional.
- Operate and maintain the power tool as recommended in these instructions, to prevent an unnecessary increase in vibration;
- Select, maintain and replace the consumable/inserted tool as recommended in these instructions, to prevent an unnecessary increase in vibration levels;
- Support the weight of the tool in a stand, tensioner or balancer, because the operator can then use a lighter grip to support the tool.
- Hold the tool with a light but safe grip taking account of the required hand reaction forces, because the risk from vibration is generally greater when the grip force is higher.

## 7.2.3 ADDITIONAL SAFETY INSTRUCTIONS FOR PNEUMATIC POWER TOOLS - AIR SUPPLY & CONNECTION HAZARDS

- Air under pressure can cause severe injury.
- Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
- Never direct air at yourself or anyone else.
- Whipping hoses can cause severe injury. Always check for damaged or loose hoses and fittings.
- Whenever universal twist couplings (claw couplings) are used, lock pins must be installed.
- Do not exceed the maximum air pressure stated on the tool.
- Use whip check safety cables to safeguard against possible hose to tool and hose to hose connection failure.
- Never carry an air tool by the hose.

## Safety Information (continued)

### AIR COMPRESSOR AND AIR TOOL SAFETY

1. Risk of Bursting. Do not adjust the regulator to result in output pressure greater than the marked maximum pressure of this air tool.
2. Ensure the hose is free of obstructions or snags. Entangled or snarled hoses can cause loss of balance or footing and may become damaged.
3. Never leave a tool unattended with the air hose attached.
4. Do not operate this tool if it does not contain a legible warning label.
5. Do not continue to use a tool or hose that leaks air or does not function properly.
6. Never direct a jet of compressed air toward people or animals.
7. Protect your lungs. Wear a face or dust mask if the operation is dusty.

**WARNING:** Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:



Lead from lead based paint, crystalline silica from bricks and cement and other masonry products, arsenic and chromium from chemically-treated lumber.

Your risk from those exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specifically designed to filter out microscopic particles.



**WARNING:** This product can expose you to lead, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Important Warnings - Ratchets



1. Eye protection and hearing protection and safety gloves must always be worn when operating a ratchet wrench.
2. When using heavy impact sockets or sockets on impact wrenches with 3/4" drive anvils or larger, a socket retaining ring and pin should be used to prevent the socket falling off and causing injury.

### Accessory Hazards

3. Disconnect the assembly power tool for threaded fasteners from the energy supply before changing the inserted tool or accessory.
4. Do not touch sockets or accessories during impacting as this increases the risk of cuts, burns or vibration injuries.
5. Use only sizes and types of accessories and consumables that are recommended by the assembly power tool for threaded fasteners manufacturer; do not use other types or sizes of accessories and consumables.

## Important Warnings - Sanders & Polishers



1. Eye protection, safety gloves and safety aprons must always be worn when operating a sander or polisher.
2. Never adjust the sander or polisher or change the backing pad, sanding disc, sanding belt or polishing bonnet unless the air supply and air hose is disconnected from the tool
3. Only use backing pads and polishing backing pads that have a rated speed then same as the sander or polisher or higher.
4. Never attempt to modify or adapt a sander or polisher for use with a grinding wheel or cut-off wheel or wire brush.
5. Only personnel trained in the correct methods to change pads, sanding discs, sanding belts and polishing bonnets should conduct these operations.

## Important Warnings - Impacts



1. Eye protection and hearing protection and safety gloves must always be worn when operating an impact wrench or impact driver.
2. When using heavy impact sockets or sockets on impact wrenches with 3/4" drive anvils or larger, a socket retaining ring and pin should be used to prevent the socket falling off and causing injury.
3. Use only impact sockets and accessories. Only use sockets designated "FOR USE WITH IMPACT WRENCHES", hand tool sockets can break, creating a hazard from flying pieces. Always check sockets, retainers and drives regularly for wear or damage and replace when necessary.

### Accessory Hazards

4. Disconnect the assembly power tool for threaded fasteners from the energy supply before changing the inserted tool or accessory.
5. Do not touch sockets or accessories during impacting as this increases the risk of cuts, burns or vibration injuries.
6. Use only sizes and types of accessories and consumables that are recommended by the assembly power tool for threaded fasteners manufacturer; do not use other types or sizes of accessories and consumables.

## Important Warnings - Drills



1. Remove the chuck key before drill starts.
2. High reaction torque can be developed in the case of stalling, which can be caused by excessive loads being applied to the drill bit, by the drill bit snagging on the material being drilled into or by the drill bit breaking through the material being drilled.
3. In cases where the means to absorb the reaction torque are requested, it is recommended to use a suspension arm whenever possible. If that is not possible, side handles are recommended for straight-case tools and pistol grip tools. In any case, it is recommended to use a means to absorb the reaction torque above 4 Nm for straight tools and above 10 Nm for pistol grip tools.
4. Keep hands away from the rotating chuck and drill bit.

## Important Warnings - Die Grinders



1. Only use mounted grinding stones or mounted carbide burrs that meet ANSI standards, ISO standards or both.
2. Never adjust the die grinder, adjust the collets or change the mounted stones or mounted burrs unless the air supply and air hose is disconnected from the die grinder.
3. Only personnel trained in the correct methods to adjust collets and change mounted stones and mounted burrs should conduct these operations.
4. Always ensure that you are aware of the direction of the sparks being created by the grinding operation and ensure that the sparks are not directed toward the operator or other persons in the area.
5. Never use a die grinder close to any explosive or flammable materials or air conditioners.
6. Only use mounted stones or carbide burrs that have the correct spindle diameter that matches the original collet size provided by the die grinder manufacturer.
7. Particular care must be taken not to use metric size mounted stones and mounted burrs with die grinders that have imperial size collets, or use imperial mounted stones and mounted burrs with die grinders that have metric collets.

## Important Warnings - Grinders & Cut-Off Tools



1. The stopping time, if longer than 5 seconds, shall be stated, and it shall be recommended to put the grinder in a stable position.
2. When cutting-off, the workpiece shall be so supported that the slot is kept at constant or increasing width during the whole operation.
3. If the abrasive product gets jammed in a cut slot, shut off the grinder and ease the wheel free. Check that the wheel is still correctly secured and not damaged before continuing the operation.
4. Grinding wheels and cut-off wheels shall not be used for side grinding. (Exception: grinding wheels designed for side grinding.) Grinders should not be used over the maximum rated speed of an abrasive product.
5. The operator shall pay attention that no bystanders are in the vicinity.
6. The personal protective equipment such as gloves, apron and helmet shall be used.
7. Never operate the grinder without the original guard supplied by the grinder manufacturer correctly fitted to the grinder.
8. Only use the wheel mounting flanges supplied by the grinder manufacturer.
9. Only use grinding wheels and cut-of wheels and wire brushes that meet ANSI standards, ISO standards or both-this will be shown on the wheel manufacturers label.
10. Only use grinding wheels and cut-off wheels and wire brushes that have the correct center mounting hole or correct threaded insert center to match the spindle thread on the grinder.
11. Never adjust the grinder, adjust the guard or change the wheel unless the air supply and air hose is disconnected from the grinder.
12. Only personnel trained in the correct methods to adjust guards and change grinding wheels or cut-off wheels or wire brushes should conduct these operations.
13. Always ensure that you are aware of the direction of the sparks being created by the grinding operation and ensure that the sparks are not directed to the operator or other persons in the area.
14. Never use a grinder close to any explosive or flammable materials or air conditions.
15. Only use the type of wheel that the grinder manufacturer specifies that the grinder is designed for use with.
16. Never attempt to modify or adapt a grinder or cut-off tool to accept a grinding wheel or cut-off wheel or wire brush that the grinder was not designed for use with.
17. Eye protection, hearing protection, safety gloves and safety aprons must always be worn when operating a grinder

### **WARNING**

*This tool is not suitable for use with Type 1, Type 41 and Type 42 cut off wheels. Do not fit Type 1 or Type 41 or Type 42 wheels to this tool. Using Type 1, Type 41 and Type 42 wheels with this tool can cause serious injury.*

#### **Use of threaded hub grinding wheels:**

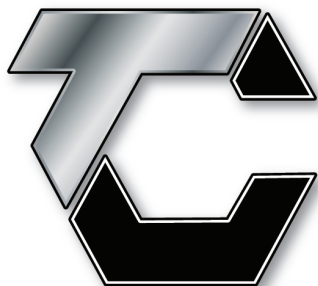
This tool features a 5/8" x 11 TPI unified spindle thread for mounting grinding wheels, along with ANSI standard mounting flanges designed for mounting type 27 grinding wheels. The use of 5/8" x 11 TPI threaded hub grinding wheels as alternatives to type 27 grinding wheels has become more common.

If you intend using threaded hub grinding wheels with this grinder; the following procedures must be followed at all times:

Before conducting any of the procedures below the grinder must be disconnected from the air supply.

- 1) The rear wheel mounting flange must be removed from the grinder before use.
- 2) Once the threaded hub wheel is fitted it must be securely tightened by holding the spindle of the grinder with the wrench provided, while tightening the wheel clockwise with a second wrench placed on the hexagon section at the rear face of the wheel. It is also recommended that for the first operation after fitting the wheel; that the wheel is held firmly on the work surface prior to starting the grinder.
- 3) Only use threaded hub wheels certified by the manufacturer to meet ANSI B7.1 standards.

Failure to follow the procedures above can cause injury or death, as deceleration of the grinder may cause the wheel to fly-off; in addition the wheel will not be properly enclosed within the ANSI standard guard supplied with the grinder.



# **CONTINENTAL TOOL**

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