

# SAFETY GUIDE FOR USERS OF PORTABLE GRINDING, CUTTING WHEELS AND FLAP-DISCS

**IMPORTANT:** Deliver this guide to the wheel operator- For all users whether industrial, tradesman, or home use. Read before mounting wheel.

For additional safety information see ANSI safety code B7.1 and B7.5 and read instruction manual for tool wheel will be mounted to.

**WARNING:** Use of this tool can generate and/or disburse dust, which may cause serious and permanent respiratory or other injury. Direct particles away from face and body. Always consult and follow tool manual when using this product with power tools.

## IMPORTANCE OF PROPER GRINDER MAINTENANCE:

The more common cause of wheel breakage has been traced to improper speeds, abusive operation and/or careless handling of the grinder. Therefore, proper and regular maintenance, service, and inspection procedures are of great importance in preventing wheel breakages. Regular inspection and maintenance procedures are the responsibility of the user. All portable type grinders, chop saws, and cut off saws (corded, cordless, or gas powered) should be inspected at regular intervals to ensure that the mounting flanges are in good condition, proper size and shape, that the speed governing device is functioning properly, and that no damage has occurred to the tool or wheel as a result of abusive use or careless handling.

The following Do's and Don'ts should be used as a guide to safer portable grinding and cutting:

## MUST DO

- DO** always handle and store wheels in a careful manner. Correct storage ensures a consistent long service life.
- DO** Hold grinder firmly with two hands per the grinder instruction manual. Maintain firm grip.
- DO** make sure grinder speed does NOT exceed maximum operating speed marked on the wheel, its blotter or container.
- DO** visually inspect all wheels before mounting for cracks or other damage. **Do NOT** use if present.
- DO** be sure wheel bore, fits the grinder spindle or pilot diameter on backing flange properly and that flanges are clean, flat, undamaged and are the proper type for the wheel you are mounting.
- DO** always use proper guard. Position it so it protects the user.
- DO** allow newly mounted wheels to run at maximum grinder speed in a protected area, with guard in place, for some time before using.
- DO** always wear eye protection and a face shield, if required.
- DO** wear additional protective equipment for heavy grinding applications. This may include face protection, leather aprons and safety boots.
- DO** always secure the workpiece firmly while it is being cut or ground.
- Do** always use the tools supplied by the machine manufacturer to change the wheel.
- DO** always be sure tool is disconnected from power supply or battery and switch is in "OFF" position before changing wheel or adjusting guard.
- DO** employ dust controls and/or protective measures appropriate to material being ground.
- DO** comply with OSHA regulations when working on materials containing crystalline silica such as concrete, mortar and stone. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure.
- DO** comply with applicable FEPA safety regulations and the European

## DON'T

- DON'T** use a wheel that is past its expiry (EXP) date as marked near centre of wheel.
- DON'T** store wheels in a damp atmosphere or in extreme temperatures.
- DON'T** drop portable machines or lower to the floor by the cable or air hose. A wheel can be easily cracked by the weight of the machine if it is up.
- DON'T** use a cracked wheel or one that has been dropped or become damaged.

- DON'T** force a wheel onto a grinder or alter the size of the mounting bore, always get the wheel that fits the grinder or chop saw spindle.
- DON'T** start the grinder until the wheel guard is properly and securely in place.
- DON'T** ever exceed maximum operating speed of wheel.
- DON'T** use mounting flanges on which the bearing surfaces are not clean, flat and free of burrs.
- DON'T** over tighten nut or flange, tighten only enough to hold wheel firmly.
- DON'T** grind on the side of conventional straight or Type 1/41 wheels.
- DON'T** use a wheel on any grinder that is not properly designed for the specific application of the wheel.
- DON'T** jam wheel into the work.
- DON'T** stand directly in front of a grinding/cutting wheel whenever a grinder is in operation.
- DON'T** grind or cut material for which the wheel is not designed for.
- DON'T** use grinding or cutting wheels on pistol grip air sanders.
- DON'T** mount more than one wheel on a grinder.

## ICON LIBRARY



This wheel to be used for cutting only, No surface grinding



Do Not use a damaged wheel inspect the wheel before use.



Must read instruction manual of the tool before the wheel is mounted.



Cutting Allowed



Use guard



Must wear eye, ear & respiratory Protection

### Grinding Wheels



Type 27 guard



Type 27  
Depressed  
center  
wheel



Type 27 guard



Type 27  
Hubbed  
wheel

### Cutting Wheels



Type 1/41 guard



Type 27/42  
depressed  
center  
cutting  
only



Type 1/41 guard



Type 1/41  
abrasive  
cutting  
wheel