



## PEDESTAL AND BENCH GRINDER SAFETY

General safety practices for operating a Pedestal/Bench Grinder to avoid serious workplace injuries.

### PERSONAL PROTECTIVE EQUIPMENT:

- Wear the appropriate personal protective equipment. This includes safety glasses or goggles, face shield, closed toe shoes and hearing protection.
- Wear long sleeves and tuck in shirt tails. Do not wear loose-fitting clothes.
- Respiratory protection should always be considered depending on what you are grinding.
- Check the Safety Data Sheet (SDS) to become aware of the specifics of the material.

### PROTECTING YOURSELF AND OTHERS:

- Inspect the grinder before each use. All protection hoods and adjustable guards must be tight and secure.
- Ensure the grinder is solidly fastened and anchored.
- Don't use too much pressure when grinding. This can cause the wheel to fracture. Small cracks can lead to the wheel dangerously flying apart.

### INSPECTING THE GRINDING WHEEL:

- Inspect the stone grinding wheel for chips, worn edges, cracks, and general condition.
- The tool rest must be set not more than one-eighth of an inch from the face of the wheel. The tool rest must be set slightly below the center of the wheel, so the material contacts the wheel at the correct angle.
- The maximum allowable space between the wheel and the adjustable tongue guard should not exceed one-fourth of an inch.
- A worn stone wheel is inefficient and dangerous. Wheels can fragment and fly apart causing serious injury. If the abrasive wheel is damaged or worn, replace the wheel.

### RING TEST:

- Before installing a new wheel, perform a ring test on the abrasive wheel to check for cracks that may not be visible to the naked eye.
- To perform a ring test, use a non-metallic tool, like a plastic screwdriver handle or wooden mallet, to gently tap the wheel.
- Tap the wheel about 1-2 inches from the edge and 45 degrees on either side of the vertical centerline.
- An undamaged wheel will produce a clear, metallic tone. If the wheel is cracked, it will make a hollow, "dead" sound.

## INSTALLATION AND REMOVAL OF THE ABRASIVE WHEEL:

- When installing a new stone wheel, ensure that the wheel has an RPM rating as high or higher than the rating for the grinder.
- All stone wheels must be mounted between steel safety flanges of equal size, not less than one-third the diameter of the wheel. Check the manufacturer's manual for specifications.
- Tighten the end nut only enough to drive the wheel and prevent slippage. Overtightening can damage the integrity of the stone wheel.
- After changing a wheel, ensure that all guards are back in place. Turn the grinder on and test the stone installation by standing off to the side while the stone comes up to speed.

I understand the information presented and the importance of Pedestal and Bench Grinder Safety.

**COMPANY:** \_\_\_\_\_

**EMPLOYEE NAME:**

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**LEARN MORE WAYS TO KEEP YOUR WORKPLACE SAFE.**  
**VISIT** [safeatwork.mo.gov](http://safeatwork.mo.gov).



If you have served on active duty in the Armed Forces of the United States and would like information about veterans' services and benefits, please complete the survey here: [mvc.dps.mo.gov/MoVeteransInformation/Survey/DOLIR](http://mvc.dps.mo.gov/MoVeteransInformation/Survey/DOLIR).

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