FASTENAL®

METALWORKING

TOOLTALK

Bench Grinder Safety Guide

Potential Hazards

- Cuts and amputations
- Inhalations of toxic materials, dust
- Eye injuries
- Struck by fragments from exploding wheels
- · Death from flying fragments

Common Accident Cost*

• Stitches	\$2,000
Average hand injury claimAverage worker's comp claim	\$6,000 \$7,000

^{*} Bureau of Labor Statistics

Key Examples

- Employee's pinky finger was amputated and index finger degloved when his hand became caught between the wheel and work rest. OSHA penalties totaled \$12,675
- Employee was using the side of a grinding wheel to make an edge on round metal stock, the part snagged, and the grinder pulled on the part along with the employee's finger, which was amputated. OSHA penalties totaled \$18,000

Bench Grinder Safety Tips

 Use a Safety Scale to ensure the gaps between the grinding wheel, tool rest and tongue meet OSHA and ANSI standards.

Part No 0962323 (shown right)



- Make sure the machine's operating speed doesn't exceed the speed marked on the wheel.
- Visually inspect all wheels prior to use and perform the "ring test" on all wheels before mounting. To perform a ring test, gently tap the wheel to check for cracks. If it is undamaged, it will sound clear.
- To prevent an injury due to a new wheel exploding, stand off to the side and run new wheels at operating speeds for one minute before grinding.
- Wait until the grinding wheel comes to a complete stop before leaving the workstation. Never use a foreign object to stop the wheel.

Bench Grinder Checklist

- Is cleanliness maintained around the grinder?
- ☐ Is the tool rest kept adjusted to within 1/8" (0.3175cm) of the wheel?
- ☐ Is the adjustable guard on the top side of the grinder used and kept within 1/4" (0.6350cm) of the wheel?
- ☐ Are bench and pedestal grinders permanently mounted?
- ☐ Is eye protection worn, or are the safety shields in place during use?
- ☐ Do side guards cover the spindle, nut and flange, and 75% of the wheel diameter?
- Are dust collectors and powered exhausts provided on grinders used in operations that produce large amounts of dust?
- Does each grinder have an individual on-and-off control switch?

Source: OSHA

