

# **EHS Fact Sheet**Machine Guarding

# **Machine Operation Guidelines:**

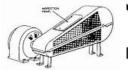
- Are the guards firmly secured and not easily removable
- 2. Inspect all equipment before use. Do not operate if it is damaged or has not been properly serviced.
- 3. Verify there are no unguarded gears, sprockets, pulleys or flywheels on the apparatus.
- 4. Immediately report any machine with a missing or disable guard to your supervisor.
- 5. The machine should automatically shut down when the guard is removed.
- 6. Verify the starting and stopping controls are within easy reach of the operator.
- 7. Know how to turn equipment on and off before operating.
- Always wear eye and face protection to prevent injuries from flying chips or sparks.
- 9. Never remove, disable, or de-activate machine guards and safety devices.
- 10. Never try to remove, disable, or reach through or around a guard while the machine is operating.
- 11. Follow operating instructions for each specific machine.
- 12. Never use machines with moving parts unless you have been trained to do so.

### Machine Guarding e-Tool

https://www.osha.gov/SLTC/etools/machineguarding/index.html

# **Types of Guards:**

- 1. Fixed provides barrier.
- Self-adjusting Provides a barrier that moves according to the size of the material.
- Adjustable Provides a barrier that may be adjusted to facilitate a variety of production operations.
- Interlocking –Shuts off or disengages power and prevents starting of machine when guard is open or moved.



#### **Machine Requiring Guarding:**

- Point of Operation where machine performs work on the material being processed).
- 2. Pinch Point anywhere a part of the body can get caught between two objects.
- 3. Ingoing Nip Points where moving parts contact or come close to other parts.
- 4. Rotating Parts rollers, grinding wheels, or circular blades.
- Traversing movement in straight, continuous line that may strike or catch an employee in a pinch or shear point between a moving and fixed object.
- Reciprocating back-and-forth or up-anddown motion that may trap/strike an employee between the moving object and a fixed object.
- Power Transmission pulleys, belts, connecting rods, flywheels, gears, couplings, spindles, cams, cranks and chains.

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