

The background is a dark purple field filled with various geometric shapes and patterns. On the left, there's a yellow zigzag line, a circle with pink diagonal stripes, and a circle with blue polka dots. In the center, a large dark blue circle contains the title text. To its right is a light blue circle. Further right, there's a pink dashed triangle, a blue striped circle, and a yellow circle. At the bottom, there are several dashed circles in blue and pink, a yellow triangle, a pink pentagon, and a yellow and black striped triangle. A large, light purple circle is partially visible behind the central dark blue circle.

# Power Tool Safety

Spindle Sander,  
Jointer, Pneumatic Nail Gun

# Spindle Sander



The Spindle sander has an oscillating sanding drum that moves up and down; used for sanding curves of various sizes on the interior and exterior of your workpiece as well as sanding detailed pieces and creating a smooth flat finish. It typically uses an 80 or 150 grit sandpaper.

- Safety glasses must be worn at all times.
- You must never wear loose clothing or gloves when operating the Spindle Sander.
- Never **FORCE** your wood into the sanding spindle.
- Always move your piece of wood in the **OPPOSITE** direction as the spindle is turning.
- Always hold your object firmly on the **SPINDLE SANDER TABLE** when using the spindle sander.
- If your piece of wood should start to spin, you should immediately: **TURN OFF THE MACHINE AND STEP BACK!!!**
- When sanding the inside of a hole, you should **NEVER** remove your piece of wood from the machine while it is still running.

- You should NEVER let go of your piece of wood while the machine is running.
- You must keep your project piece moving in order to avoid BURNING THE WOOD, because the spindle sander can be slow to remove the wood.
- SAFETY GLASS MUST BE WORN AT ALL TIMES.

<https://www.youtube.com/watch?v=zP9SikPMKgc>

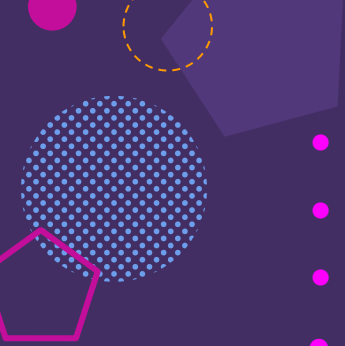


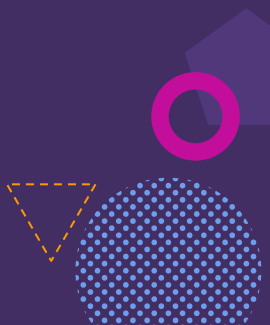


# JOINTER



A jointer is used **to make the face of a warped, twisted, or bowed board flat.** After your boards are flat, then the jointer can be used to straighten and square edges

It is not meant to straighten out bowed lumber intentionally.

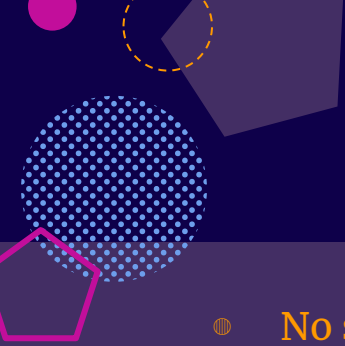
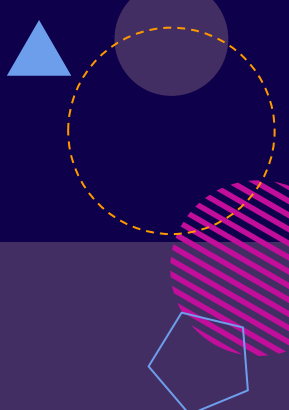


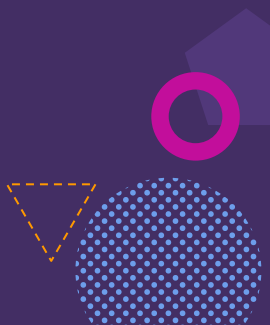
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- SAFETY GLASSES MUST BE WORN AT ALL TIMES.
  - You **SHOULD ALWAYS** turn the dust collector on before you start your work.
  - You should **NEVER** use your hands to clean wood shavings from ANY table!
  - It is **DANGEROUS** to adjust the fence while the jointer is running!
  - If you are facing the jointer as you use it, the kick back danger area is to your **RIGHT.**
  - You should allow the machine to come to **FULL** speed before using it!
  - Adjust the depth of cut **BEFORE** you turn to jointer ON!
  - Always cut in the direction of the **WOOD GRAIN.**
  - You **CANNOT** SAFELY use the jointer on PLYWOOD or PARTICLEBOARD.
  - The MAXIMUM safe plane on a jointer thickness is **1/8"**.

# Pneumatic Nail Gun


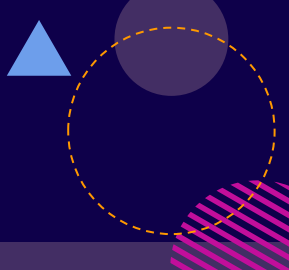


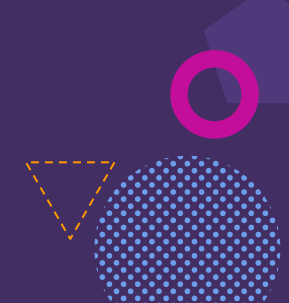
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A nail gun, nailgun or nailer is a type of tool used to drive nails into wood or some other kind of material. It is usually driven by compressed air, electromagnetism, highly flammable gases.

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- No student can use the nail gun without Mrs. Gleye's permission.
  - According to OSHA, top nail gun risks include:
    - Accidental nail discharge or ricochet off a hard surface.
    - Nail penetration through materials or nails missing the intended work surface
    - Practices like nailing in an awkward position or bypassing and disabling gun safety features
  - The safest trigger type is the: Full sequential trigger
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- Full sequential triggers: Lowers the risk of double fires and unintentional nail discharge.
  - OSHA recommends:
    - Always using a traditional hammer for nailing
    - Providing nail guns with full sequential triggers to only the most experienced workers
    - Using full sequential triggers where lumber must be held in place by hand
  - Studies show when workers use nail guns with multi-shot contact or single-shot sequential triggers: The risk of injury is twice as high
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- It is important to provide thorough nail gun training for workers, teaching about all of the safety mechanisms EXCEPT: How to disable safety mechanisms
- To protect workers using nail guns, provide personal protective equipment (PPE) such as:
  - High-impact eye protection like safety glasses or goggles marked ANSI Z87.1
  - Foot protection, Ear Protection
  - Hard hats
- OSHA recommends nail gun training shouldn't be CONDUCTED IN RHYME.

- Research shows many nail gun accidents are not reported. Encourage workers to report all injuries so:
  - Jobsite risks can be easily identified
  - Accidents and close calls can be used to remind work crews about nail gun safety
  - Workers can receive medical attention
- Employers should keep first aid kits on the jobsite to treat injuries. They should also encourage hurt workers to seek medical care immediately – even for hand injuries that seem minor – because:
  - Research suggests one in four nail gun hand injuries can cause damage to nerves, joints, and tendons
  - Wounds can be much worse than they appear
  - Materials can contaminate wounds and cause infections

The background is a solid yellow color. In the corners, there are various geometric shapes: a purple circle, a blue triangle, a purple circle with a dashed line, a purple pentagon, a purple circle with a dotted pattern, a purple pentagon, a purple circle with a striped pattern, a purple pentagon, a purple circle with a dotted pattern, a purple pentagon, a purple circle with a striped pattern, and a purple pentagon.

# THE END!

QUESTIONS???