

Combination Sander



Machine:	Combination Sander
Make/Model:	Grizzly G1014Z
Revised:	3 / 16 / 2023
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Department:	Mechanical Engineering

DO NOT use this machine unless you have been trained in its safe use and operation!

Personal Protective Equipment



Safety Glasses
Required



Protective
Clothing



Inhalation
Hazard



Contain
Long Hair



Do Not Wear
Gloves



Do Not Wear
Jewelry

Potential Hazards

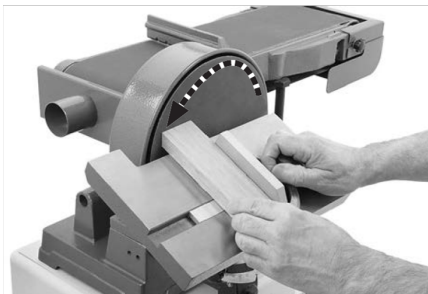
- Eye injury from flying work-piece
- Cuts from contact with sanding belt or disc
- Entanglement in rotation machine parts
- Pinch from moving machine parts
- Burns from hot tools or hot work-pieces
- Splinters
- Falls due to poor housekeeping around the machine
- Hazardous Dust

Typical Operations

Horizontal Sanding



Disc Sanding



Procedure Checklist

PRE-Operation:

- Identify ON/OFF paddle switch.
- Ensure the disc and belt are not damaged or frayed.
- Adjust the angles of the work table and miter gauge (if used) for your operation.
- Ensure the tilt table is not more than $\frac{1}{16}$ " (1 mm) from abrasives, locked in position and stable.
- Remove all tools and parts from the sander.
- Ensure the sanding belt is correctly tensioned.
- Note, *both* the belt and disc will *both* run when the machine is on.

Operation:

- Turn on the power and allow the machine to reach full speed.
- If using the disc ...
 - ◇ Always feed the work-piece into the *left side* of the sanding disc (the sanding disc rotates counter-clock wise when viewed from the sandpaper side).
 - ◇ Place work-piece on the work table and firmly hold with two hands or against the miter gauge.
 - ◇ With light pressure, slowly feed the work-piece into the *left side* of the sanding disc.

- If using the belt for horizontal sanding ...
 - ◇ Hold the work-piece with both hands and one end of the work-piece against the backstop.
 - ◇ Ensure your fingers will keep away from the belt, apply even pressure and move the work-piece back and forth across the sanding belt.

POST-Operation:

- Turn off the power and allow the belt and disc to come to a complete stop.
- Use a shop vacuum to clean machine.
- Use a rag to wipe down the machine.
- Leave the machine and work area in a safe, clean state.

Do's and Don'ts

Do:

- Read the user manual: [\[GitHub Link\]](#)
- Do use the dust collection system (and optionally wear an N95 mask).
- To achieve a better finish, sand with progressively high grit numbers, with no one grit increase of more than 50 grits at a time.

Don'ts:

- Do not use the sander without approval!
- Do not stand or hold work in an awkward position.
- Do not use compressed air to clean any part of the sander.
- Do not leave the sander running unattended.
- Do not use the sander if the sanding disc or sanding belt are damaged. Ask the lab manager to replace the worn disc/belt.