



# Shop Fox Oscillating Spindle Sander Safety Rules

The Shop Fox Oscillating Spindle Sander is used to sand concave edges. It is commonly used in conjunction with work done with a band saw. The band saw is used to cut a pattern where the blade stays just outside of the cut line. The oscillating spindle sander can then be used to sand the concave profiles to the line. The convex profiles are typically sanded to the line using a belt or disk sander. The sander consists of a motor driven abrasive drum that not only rotates but also moves up and down. This combination of rotational and axial movement provides a much smoother surface that can be obtained by rotation only, provides longer abrasive life, quicker stock removal and less burning. The sander has sanding drums with diameters from ¼” to 4”.

## Oscillation Spindle Sander Safety Rules:

1. **WARNING: The abrasives used on this sander are capable of removing skin, flesh and bones from your hand very quickly. Always ensure that the workpiece is gripped securely, held tight against the table and keep your hands away from the abrasive surfaces.**
2. Follow the 3” rule; always keep fingers at least 3” from the sanding drum.
3. Don’t sand stock that is not flat on the bottom without a Shop Leader approved jig that will hold the work in a stable position.
4. Keep a balanced stance at the sander.
5. Never clear chips from the table with your hand while the sanding drum is moving.
6. Unplug the sander, and maintain control of the plug, when installing or removing the abrasive sleeve or the sanding drum.

## Start with a Risk Assessment to ensure a safe work area:

1. A three foot perimeter around the sander should be kept clear of people, debris and sawdust that might impair traction or footing to avoid slips and falls.
2. Safety glasses with side shields or a face shield and hearing protection must be worn.
3. **DANGER!** Wood dust has been determined to be carcinogenic and some dusts are also toxic. Proper respiratory protection is required.
4. A NIOSH approved respirator must be worn while sanding.
5. Remove loose fitting clothing, jewelry, and tie back long hair.

6. Do not wear loose fitting gloves or anything that would allow a hand, fingers or clothing to be caught by the revolving sanding drum.
7. Give the work your undivided attention.
8. Check the sanding sleeve for tears or rips before operating the sander. Report any damaged sleeves or drums to the Shop Leader.

### **Operational Safety Rules:**

1. Approach your work in the Club Shop and on the oscillating spindle sander with a safe attitude!
2. Make all adjustments with the power shut off.
3. Install the smallest table insert that the sanding drum will clear. Rotate the sanding drum by hand to confirm that the drum does not hit against the table insert.
4. Keep all guards and covers on the machine when it is on and running.
5. Always turn on the dust collector before using the sander.
6. Use only sanding sleeves and drums provided by the Club.
7. Always allow the sander to come to full speed before starting to sand.
8. Do not use the sander to sand metal, plastic, rubber or any material other than wood.
9. Always hold the workpiece firmly against the table.
10. The drum rotates counterclockwise when viewed from the top. You should therefore feed the workpiece from right to left so that the workpiece is being fed into the rotation of the drum. If you feed left to right, that is a climb cut and the workpiece may be caught by the abrasive and thrown. Very shallow climb cuts can usually be safely done.
11. Avoid awkward hand positions where a sudden slip could cause a hand to move into the sanding drum.
12. Do not sand pieces that are too small to be properly held or supported. Sand these pieces by hand or use another method. In some cases, small pieces can be safely sanded if the workpiece is held by a clamp (e.g. a hand screw) or jig.
13. If the sanding sleeve breaks or tears, stop the machine immediately and notify the Shop Leader.
14. **WARNING!** The sander must be locked out using the Clubs Lockout Procedure when the sanding sleeves or drum are changed.
15. **WARNING!** The sanding drums are threaded into the spindle. If the drum starts to wobble while in use, it is likely that the drum has started to unscrew itself. If this occurs, stop the machine immediately and notify the Shop Leader.
16. All replacements of the sanding sleeve or drum are to be done under the direction of the Shop Leader.
17. Never start the machine without the support table clear of everything, including the stock you are sanding.
18. Turn the sander off and wait for it to stop before walking away from the machine.
19. Never stop the rotation of the sanding drum with your hands or fingers.
20. Always clean the support tables and work area upon completion of the sanding task. Do not use your hands or blow the dust; use a bench brush or vacuum.