the
WIDE-BELT SANDER

feed on ——— ——— sander off

feed off ——— ——— sander on

thickness dial
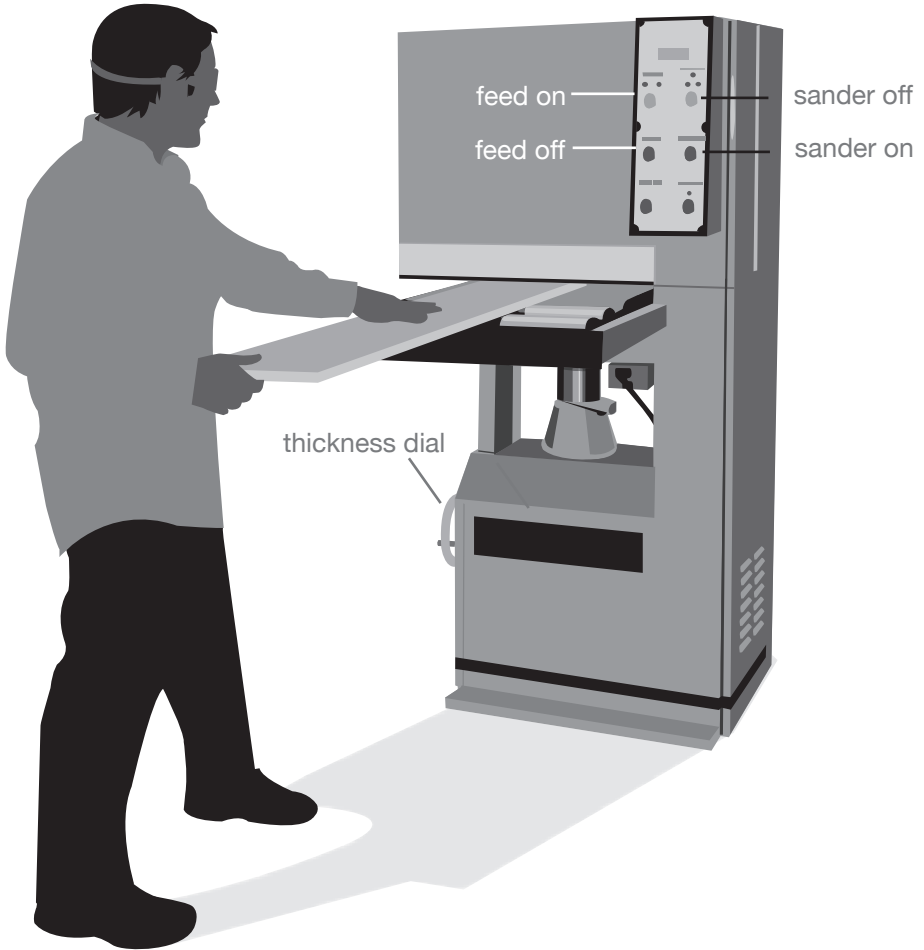
The wide belt sander is used to machine stock flat and to specific thicknesses. It can be used with solid wood and composite boards such as plywood and MDF. A rubber conveyor carries your stock through the machine while a wide abrasive belt removes material from the top surface. It is often used in conjunction with the jointer to create square and true stock.

The wide belt sander is electric powered but relies on air pressure to control the abrasive belt. Therefore, the user must make sure the machine's air valve is open before operation.
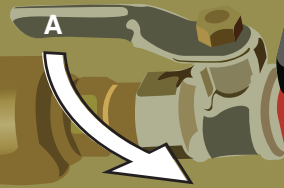
step by step:

1. Open the air valve (right) located behind the machine, and check pressure setting. Pressure should be 80 psi.

2. Determine thickness of stock based on thickest area, then set machine with thickness dial to that measurement.

3. Turn on the sanding belt and wait until it comes up to speed.

4. Turn on the feeding belt.

   Never hold your fingers under the material as you feed it.

5. Set stock on conveyor, let the machine pull the stock in. Walk around to back once stock is halfway into the machine and wait for it to fully exit the machine on the conveyor.

6. After retrieving stock from the back, turn thickness dial 1-3 rotations clockwise.

7. Repeat Steps 5 and 6 until desired thickness is reached. It is a good idea to check actual thickness of stock with measuring device while thicknessing.

8. Turn off both power switches and close the air valve when you are done.

To open air valve, pull lever (A) forward. You will hear a hissing sound.

A

safety:

• Stock must be 12" long to be sent through the wide belt sander.

• Stock thinner than 1/8" can be sent through the machine, but a backer board should be used.

• Never reach your hands into the machine.

• Never force stock into the machine or try to pull it back out. If stock is stuck in machine, stop the conveyor and abrasive belt and turn the thickness dial several turns counter-clockwise. This will make material removal possible.

• Do not attempt to surface metal or plastic on the wide belt sander - it is intended for wood and wood products only.

INSTRUCTIONAL
FABRICATION

SAIC School of the Art Institute
of Chicago