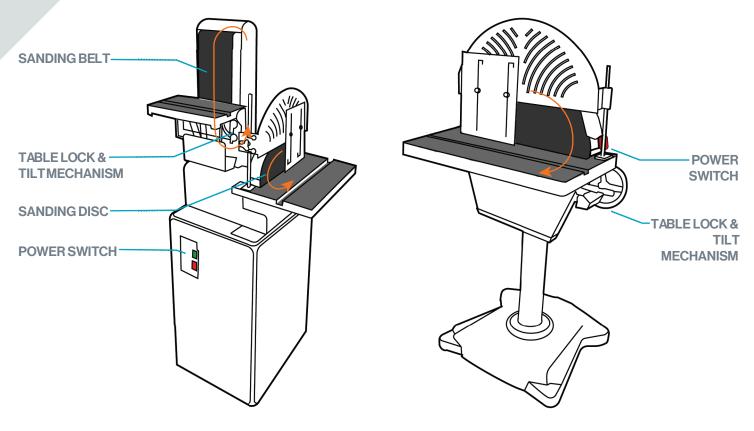
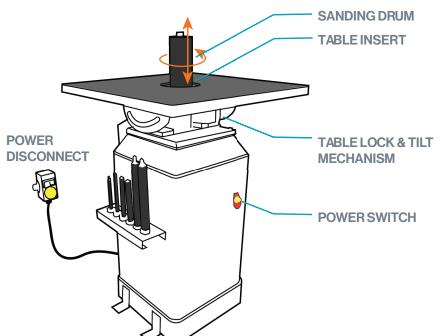


P. 2

VERSION#

THE WOOD SANDERS SHAPE AND SMOOTH YOUR MATERIAL





MATERIALS

ALLOWED MATERIALS

- + Wood
- +Most plastics

BANNED MATERIALS

- Metal
- -PVC
- Pressure treated wood
- Carbon fiber and composites

CONSULT MAKERSPACE STAFF FIRST

+ All other materials

TAKE PROPER SAFETY PRECAUTIONS WHEN OPERATING WOOD SANDERS

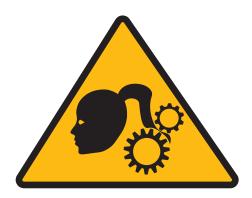
P.3







- Safety glasses required
- Hearing protection recommended (ear plugs or ear muffs)







- Wear short sleeves or roll up long sleeves
- Secure any loose clothing (zip up jackets, tuck in strings, etc.)
- Tie up and tuck in long hair
- Remove jewelry and lanyards, etc.
- Do not wear gloves





Mask or respirator is highly encouraged

TOOLS AND MATERIALS NEEDED

P. 4

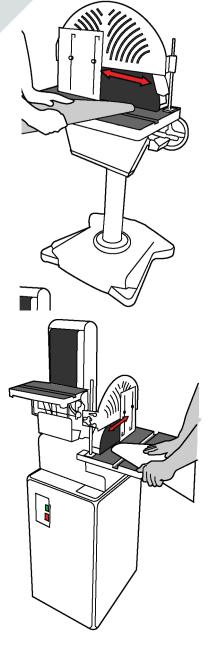




MATERIALS

- · What we offer
 - 1/8" Plywood
- Common places to buy these materials:
 - SHED Makerspace Materials Shop
 - ID Shop
 - Foundations 3D Design Shop
 - Lowe's
 - Home Depot
 - Any wood/lumber store

If bringing your own material, you must provide a receipt or MSDS as proof of what it is



DISC SANDER

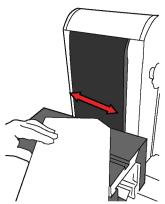
- A disk of sandpaper is spun at high speeds to remove material from corners and edges.
- There are two forms of disc sanders, disc only and belt/ disc combination sanders.
- Only use the side where the disc is coming down towards the table.
- The table can be tilted to sand at non-right angles.
- To tilt: loosen knob on right-hand side of table and tilt. Return to neutral position when finished.

BELT SANDER

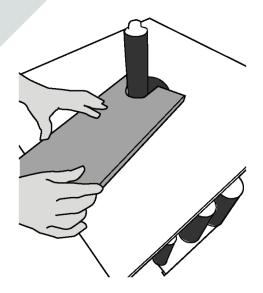
- A belt strip of sandpaper is spun at high speeds to remove material from corners and edges.
- There are two forms of belt sanders, belt only and belt/disc combination sanders.
- The table can be tilted to sand at non-right angles.
- To tilt: loosen knob on right-hand side of table and tilt. Return to neutral position when finished.

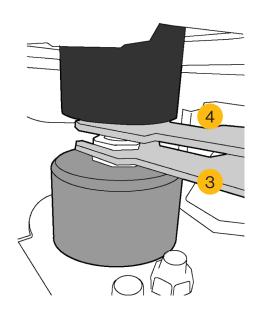
USAGE TIPS

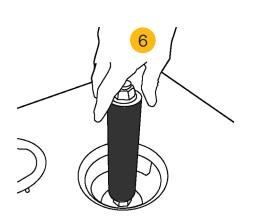
- Your material should only be getting moved side to side
- · Keep the material resting on the table
- The disc and belt sanders will pull your material down towards the table



P. 6







SPINDLE SANDER

- A cylinder covered in sand paper is spun at high speeds while moving up and down to sand curves.
- Use the sanding drum size closest to your curve's diameter.
- The table can be tilted to sand at non-right angles.
- To tilt: loose knob on front of machine and spin handle to preferred angle.

CHANGING THE DRUMS

(MAKERSPACE STAFF ONLY)

- Make sure the sander is turned off.
- 2. Take the neck plate off.
- 3. Place one wrench on top of the spindle sander to keep it from rotating.
- 4. Place the second wrench below the sanding drum.
 - Rotate the two wrenches apart from each other to loosen the nuts?drums?.
- 5. Unscrew the current sanding drum and place it back on the rack.
- 6. Place the new sanding drum on the sanding spindle, turning it by hand to tighten it.
 - Do not use a wrench for this.
 - Do ot over tighten the spindle sander.
- 7. Place the size appropriate neck plate on.
 - The opening should be only slightly larger than the diameter of your sanding drum of choice.

USAGE TIPS

- Keep your material resting on the table when working.
 - This will prevent the material from being slammed down.
- Keep a firm grip on your material.
- Stop the machine before sanding the inside of a hole.

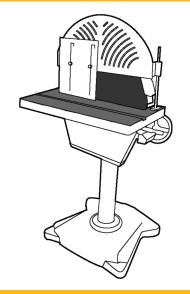
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KEY DO'S AND DON'TS

QUICK CHECK BEFORE STARTING

- 1. Mark your material with your planned stopping point.
- 2. Check that the sander's table is clear.
 - **SPINDLE SANDER:** Make sure the sanding drum is your needed size.
- 3. Adjust the table if needed.
- 4. Make sure your material is thicker than the gap between the sandpaper and table.
- 5. Turn the dust collection on.

KEEP YOUR MATERIAL FIRMLY AGAINST THE TABLE



KEY DO'S AND DON'TS



DURING THE JOB

- 1. Turn the sander on and wait for it to come to a constant speed before starting on your sanding.
- 2. Hold your material firmly with both hands at all times.
- 3. Slowly move your material side to side as you work.
 - Do not lift your material off the table, it will be slammed down on to the table.
 - The material should always have least one point of contact with the table.
- 4. Turn the sander off when finished and stay near it until lit has come to a complete stop.

CLEANUP

- 1. Clean off any dust with the brush and dust pan.
- 2. Reset the table to 90 degrees if you had tilted it.

FINE TUNING THE < MACHINE NAME > FOR YOUR PROJECT

P. d8

COMMON PROBLEM 1

- How to fix
- When to call for help

COMMON PROBLEM 2

- How to fix
- When to call for help

COMMON PROBLEM 3

- How to fix
- · When to call for help



WHEN IN DOUBT ASK A MAKERSPACE STAFF

ADDITIONAL MACHINE INFO CAN BE FOUND HERE:

(Qr code or link to official machine manual/guide)



Hazard Communication Standard Pictogram

The Hazard Communication Standard (HCS) requires pictograms on labels to alert users of the chemical hazards to which they may be exposed. Each pictogram consists of a symbol on a white background framed within a red border and represents a distinct hazard(s). The pictogram on the label is determined by the chemical hazard classification.

HCS Pictograms and Hazards

Health Hazard Flame Exclamation Mark • Irritant (skin and eve) Carcinogen Hammables Mutagenicity Pyrophorics • Skin Sensitizer Self-Heating Acute Toxicity (harmful) Reproductive Toxicity • Respiratory Sensitizer • Emits Flammable Gas Narcotic Effects • Target Organ Toxicity • Respiratory Tract Self-Reactives Aspiration Toxicity • Organic Peroxides Irritant • Hazardous to Ozone Layer (Non-Mandatory) **Gas Cylinder** Corrosion **Exploding Bomb** • Skin Corrosion/ Gases Under Pressure Explosives Self-Reactives **Burns** • Eye Damage • Organic Peroxides Corrosive to Metals Flame Over Circle **Environment** Skull (Non-Mandatory) and Crossbones Oxidizers Aquatic Toxicity Acute Toxicity (fatal or toxic)

For more information:





Occupational Safety and Health Administration

RIT Brand Elements collected

These a re some of the elements that we use frequently. Last updated 092721

