

Red Tool Framing

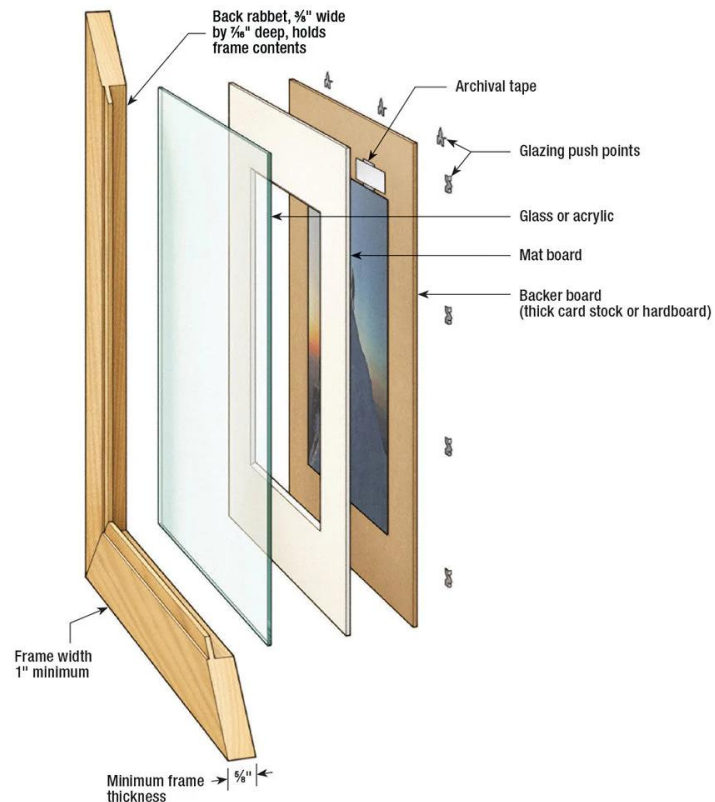
July 2026



Outline

This is a basic class on the use of the frame shop equipment. After this class you can use the equipment to start framing.

Safety & Orientation
Fletcher 3000
Jyden Chopper
Pistorius V-nailer
Mat Cutters - if time allows
Clean-up



Safety & Orientation

Personal Protection Equipment (PPE)

- Gloves for handling glass
- Eye protection - Glass cutting, frame chopper & underpinner
- There is a small medical kit on the wall above the frame chopper



Air Compressor

- Breaker in ceramics/kiln room (right wall)
 - Upper left breaker for on/off
 - Please turn off breaker after use
 - Do not leave breaker panel door open
- Air valve is on wall behind frame shop
- First inside air valve is for air nozzle/gun and v-nailer
- Second inside air valve is for v-nailer
- Avoid using quick connect adapters under pressure

Pistorius V-nailer (Red Tool)



Safety

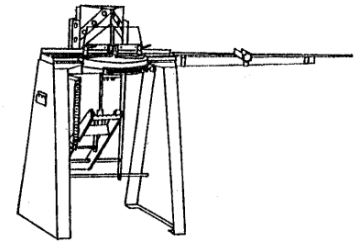
- Wear safety goggles
- Turn off air & release pressure prior to loading v-nails
 - Release pressure by using top clamp on scrap piece
- When loading v-nails - spring loaded pusher is likely to slip, use one hand to keep it in place
- Once tool is pressurized, keep hands away from front and top clamps at all times
- Secure stops no closer than ¼ inch from edge of frame
- Once frame is in place and secured with front clamp, keep hands on left (top clamp) and right (v-nail firing) switches
- There are acrylic pieces on the pegboard to level your surface

Pistorius V-nailer - Cont.

Operation/reminders

- Air regulator set to 80 PSI
- Front clamp air regulator should not need adjusting (see steward)
- Use top clamp on scrap piece a few times to verify tool is pressurized (can leak air initially)
- V-nails are loaded glue side up and the bottom of the V towards the back of the tool
- Just a touch of glue is needed on wood before nailing corner
- Small frames may need just one v-nail per corner
- *v-nails are a consumable and may not always be in the shop. You might want to bring your own.* You can purchase on Amazon $\frac{3}{8}$ ", 10mm

Jyden Chopper (Red Tool)



Safety

- Adjust foot pedal height at back with knob
- Keep hands on framing material and away from blades
- Do not place foot on pedal until you are ready to cut
- Cut in small increments (Nibble) - do not force a large cut which can put you off balance or damage the tool
- When pieces stick to blade - back off chopper setting rather than attempting to pull off blades

[Instruction manual](#)



Jyden Chopper - Cont.

Basic Directions/reminders

- Verify fences and extension scale are aligned
- Foot pedal needs to be lowered prior to use
- Adjust and utilize frame supports to avoid splitting
- Support long pieces - may need to open and secure frame shop door & use a roller support.
- Place material to desired location and then secure stop against it
 - Scale has built in measurements to match mat size
- Cut in small increments - backing off slightly after each cut to allow blade to easily raise
- Raise foot pedal after use



Fletcher 3000 - Multi Material Cutter



Substrate Cutting Capabilities

Glass	Up to 1/4" (6mm)
Mirror	Up to 1/4" (6mm)
Acrylic	Up to 1/4" (6mm)
Matboard	4, 8, 12 ply
Foamboard	Up to 1/4" (6mm)

[Fletcher 3000 manual](#)



Fletcher 3000 - cont.

See directions
to change
blades
Lift sleeve out
and turn to
desired blade.
**score glass
only once



Fletcher 3000 - cont.

Mat & Foam Core, cardboard

- Make sure you are using appropriate blade
- Use scrap mat board in front of your mat board
- Set measurements
- Use clamp
- Draw down multiple times if needed

Glass Wheel

- Clean Glass before scoring. This can make a big difference in how well the glass comes out.
- Make sure you are have turned the turret to the glass scoring wheel
- Mark glass
- Set Stops
- **Do Not use clamp**
- Draw down wheel only once

Fletcher 3000 - cont.

Acrylic

- Make sure you are using the acrylic blade on the turret
- Mark Acrylic
- Set Stops
- Draw down acrylic knife several times if scoring thick pieces
- Use breakout roller



Mat Cutters

Logan

- [Logan Mat cutter](#)

Fletcher Straight & Bevel

- [Fletcher Mat Cutter video](#)

Fletcher Oval & Circle - Advanced Class

- [Fletcher 1100 - Circle & Oval Video](#)
- [Manual](#)

Mat Cutters - Cont.

- Basic Directions - Choose mat material. Blades for classes are generally around, but you will want to bring your own so that you will have a better cut with sharp blades.
- Make measurements on back side of your mat board.
- Choose appropriate mat board cutter system
 - Straight or beveled
- Make sure you have a scrap piece of mat board under yours to protect the mat board cutter.
- Line up mat board and clamp or use blocker clips.
- If using straight cutter start at inside corner and work around to make your shape.
- If using a bevel cutter you will need to start a little ahead of your corner mark (see video) and also end a little after your marked corner.

If you have a small amount of corner still hanging on use the exacto knife in the cup on the wall to gently cut the middle away.

Cleanup/Closeup

Air Compressor - Shut down

- ☐ Remove all your materials
- ☐ Replace mat cutters back to shelves
- ☐ Replace all tools
- ☐ Wipe down tables
- ☐ Sweep down equipment
- ☐ Sweep floors
- ☐ Empty Trash if trash is full replace with new bag and put full bag in bin at the end of upper building
- ☐ Anything broken or needs replacing? Notify stewards on Slack - Dawn Martin/David Lang

Things to bring when framing

- ☐ Art work
- ☐ Mat boards
- ☐ Backer board
- ☐ Glass/Acrylic
- ☐ Frame sticks
- ☐ Marker for wood edges
- ☐ Double sided tape
- ☐ Backer paper
- ☐ Hanging hardware
- ☐ Bumpers

- ☐ Scissors
- ☐ Hanging tape
- ☐ Pencil
- ☐ Notepad
- ☐ Wood Glue
- ☐ PPE
- ☐ Blades & vnails