

Panel Saw

•Review dress code

-Remind students that long hair must be tied back, loose clothing and/or jewelry must be removed

•Intro/ What is a panel saw?

-It is a portable circular (skil) saw mounted on a rail or track

-Makes STRAIGHT cuts in sheet stock

-More convenient than a table saw, but not as accurate

-Sheet stock can be broken down into smaller panels then cut to exact size on the table saw

-Makes both Vertical (cross) and Horizontal (rip) cuts

-Acceptable materials: Plywood, MDF, Particle Board, OSB, Cardboard, etc.

-NO metal, drywall, hardy-backer etc.

•Discuss and Demonstrate Controls

-Explain the key must be checked out from the tool room

-Show the On/Off switch

-Demonstrate the sliding action

Vertical Cuts:

-Show which way to load the material into the saw, point out the anti-kickback fingers that only allow the stock to be fed in one way, do not try to remove material by pulling back through the anti-kickback fingers

-Show how material rests on the rollers in the bottom of the saw

-Show the tape measure and stop block

-Install the mid rails and show how they can be useful for pieces that are not as wide as a full sheet

-Explain how to align material by looking at the blade and aligning with a mark on the edge of the material

-Show how the power cord can get tangled around the dust collection and remind users to always keep this in mind

-Emphasize this saw should only be used for large sheet stock, small stock will tip into the saw causing it to bind and kick back

Horizontal Cuts:

-Show how to pull the pins and rotate the mounting plate clockwise for making rip cuts, note it is possible to rotate the saw the wrong direction (Make sure tool is unplugged)

-Show the arrows on the saw that show the direction of cut (left to right)

-Show the pointer and tape measure used for rip cuts, explain to double check alignment by looking at the blade and aligning with a mark on the material

-Show the knob that locks the saw in place and keeps it from sliding up or down

-Emphasize this saw should only be used for large sheet stock, small stock will tip into the saw causing it to bind and kick back

•Discuss and Demonstrate importance of:

-Hand Position: Never place hands near or underneath the saw

-Make sure material is resting with long, straight side down on the rollers or mid rails

-Do not cut small pieces, they will get pulled into the saw causing it to bind and kick back

•Making a Cut

-Cross Cut

- Demonstrate a cross cut
- Show that the saw must be away from the material before starting and the blade should come up to speed before cutting
- Make sure to go all the way to the bottom of travel and let the blade completely stop before removing the material, **DO NOT back up through the cut with the saw running**
- Listen to the saw, do not force the saw through the material, let the saw do the cutting
- Field questions then have students make a cut
- Rip cut**
 - Set the saw up for a rip cut
 - Demonstrate a rip cut
 - Emphasize **hands never go underneath the saw**, the material is pulled through the saw to finish the cut (NEVER do this on a Table Saw)
 - Never let go of the material, transfer one hand over to the outfeed side at a time
 - Field questions, students do not need to make a sample cut

•**Remind students to clean-up after themselves immediately after using a tool or area.**

- Show them where the brooms, vacuum, etc. are located and what our expectations for clean-up are.
- Remind them particle board, OSB, MDF, Melamine, and finished material goes in the **TRASH**. Wood and Plywood can be recycled.
- Have the students clean up

Ask students the following question:

- What type of material is the Panel Saw primarily used to cut?
Sheet Stock

Remind students **NEVER cut small material on the panel saw** it will tip into the saw causing it to bind and kick back

REMEMBER- We are here to help. If you have any questions ask!