

Woodworking 1B: Machinery & Methods

Learning Plan

Module 9.1: Stationary Sanders

Overview

The Oscillating Spindle Sander is a machine found mostly in furniture manufacturing plants and pattern shops. It can save many hours of hand labor needed to sand intricate contours and internal cutouts. Spindle lengths vary between machines, but are generally between 3-12" long, with diameters up to 4".

The most common stationary abrasive machine in the small cabinet shop is a disc sander. Often these machines come in combination with a vertical belt sander. Here at Madison College, we use two separate machines: the Disk sander for end grain and small pieces, and the Edge sander for longer edges. This unit will introduce you to these machines and give you some practice in their operation.

Task	Estimated Time	Actual Time
Reading/Study	1.5 hour	
Observation & Practice	2 hours	
Exercise	1 hour	

Learning Activities

✓ Task

- Read *Modern Cabinetmaking (6th edition)* pp. 553-56
- Review Info Sheet 1, "Safety Rules for Stationary Sanders"
- Observe a demonstration on using on Stationary Sanders and/or watch the following videos:
 - [Spindle Sander](#) (18:13)
 - [Disk Sander](#) (11:52)
 - [Edge Sander](#) (14:37)
- Review Information sheet 2, "Abrasive Sleeve Changing Procedure"
- Complete Skill Activity 1, "Parts and Adjustments of an Oscillating Spindle Sander"
- Review Information sheet 3, "Edge & Disk Sander Parts"
- Review Information sheet 4, "Basic Maintenance of Sanding Machines"
- Complete the "Demonstration Checklist" with your instructor or an approved proxy.
- Practice using Stationary Sanders
- Complete exercise 9.1, "Stationary Machine Sanders"

Assessment Activities

- Self-evaluate and submit with learning plan.