

Lesson 6: Measuring and Marking Tools

Introduction

In Woodworking, measuring tools and marking tools are the most important tools needed in the designing and execution phase of the project. It allows the individual to accurately measure an object for illustration as well as provide the exact measurement for marking or cutting. The tools determine the dimensions of the parts and help prevent material waste, fitting issues, and frustration during the assembly of the workpiece.



Woodworking Tools for Precision

Rulers

Rulers are the most simple yet essential tools used for measuring. They come in various materials including wood, plastic, and metal, which are suited for different environments and tasks

Key uses:

- Measuring short distances
- Checking Straightness
- Serving as guides for layout lines



Vernier Caliper

Vernier Calipers are used for highly accurate readings, typically from the ranges of 0.02 mm or 0.00 inches. They are suitable for measuring internal and external dimensions of the workpiece.



Key uses:

- Measuring thickness, width, depth, and diameter
- Measuring the internal and external parts of an object
- Serving as guides for layout lines

Divider

A **Divider** is a tool used to mark off a series of equal distances. They look very similar to a compass, yet they do not have any legs that has a drawing point. Instead, they are equipped with two sharp points.

Key uses:

- Dividing lengths into equal parts
- Transfers measurements from illustrations into the workpiece



Measuring Tape

A **Measuring Tape** is a flexible and retractable measuring tool used for measuring long distances and navigating around corners and curved surfaces.

Key uses:

- Measuring longer lengths, heights, and spaces
- Has a lock feature that could lock the retracted length of the tape



Pencil

A **pencil** is a versatile marking tool that allows the individual to make visible guidelines on a wide range of surfaces.

Key uses:

- Drawing layouts
- Delineate accurate cutting parts



Bradawl

A **bradawl** is a pointed metal tool with a handle that is used for creating a starter point in the workpiece.

Key uses:

- Marking the exact drill point which prevents screw heads from wandering during the startup of the activity.



Marking Knives

A **Marking Knives** is a tool that is used to create fine, precise marks for woodworking or delicate crafts.

• Key uses:

- Designed to mark across the grain
- Trace a hairline guide in the workpiece



Terminologies

Delineate– In woodworking, delineate is used to refer to the portrayal, display, and setting forth with accuracy or in detail.

Measuring Tools – Are set of tools used to determine the dimensions or measurements of an object or workpiece

Marking Tools – Are tools used in Woodworking in order to transfer notations, dimensions, or measurements from an illustration to the actual workpiece.

Reference

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