

# 5.2.2 Entering Starting Bit and Oval Width — Bit Size mode

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5.2.2

oval method

When using the Oval Calculator in **Bit Size mode**, you enter two values Spectre Cloud uses to calculate the resulting oval: the **starting drill bit size** (the diameter of the round bit used to open the hole) and the **oval width** (the amount of stretch applied beyond the original round hole). This mode is designed for drillers who think and record measurements in terms of their tooling rather than the finished hole dimensions.

## ☐☐ What Is Bit Size Mode?

Spectre Cloud's Oval Calculator offers two input modes for describing an oval hole:

- ☐ **Bit Size mode** — You enter the drill bit diameter used to open the hole, plus the width of the oval stretch. Spectre Cloud calculates the resulting oval dimensions for you.
- ☐ **Direct Entry mode** — You enter the final oval dimensions (V and H measurements) directly as measured with a gauge.

Bit Size mode is ideal when your workflow starts at the drill press rather than the gauge. If you know you used a  bit and stretched the hole , you can enter exactly that — Spectre Cloud

handles the arithmetic.

# ☐☐ The Two Fields Explained

## Starting Bit Size

This is the **diameter of the drill bit** used to create the initial round hole before any oval stretch is applied. Enter the bit size in the same unit your shop uses (inches or fractions of inches in most regions). Common values range from  through  for finger holes, and up to  or larger for thumb holes.

- ☐ Enter the bit you actually used at the press — not an estimated or nominal size.
- ☐ Do not enter the final hole diameter — that is a result, not an input in this mode.

## Oval Width

This is the **amount of stretch** applied to the hole beyond the round starting size — measured across the direction of the oval cut. For example, if you opened a  hole and stretched it  in the toe-to-heel direction, your oval width is .

- ☐ The oval width represents the *additional* material removed, not the total hole size.
- ☐ Common oval widths range from  to  depending on fit requirements.
- ☐ Do not enter the full oval dimension — Spectre Cloud adds the oval width to the starting bit size to compute the result.

# ☐☐ How to Enter Values in Bit Size Mode

## ☐☐ Desktop

1. Open the **Oval Calculator** from the navigation menu.
2. Confirm the input mode is set to **Bit Size**. If not, switch modes using the mode selector at the top of the calculator.
3. In the **Starting Bit** field, enter the drill bit diameter (e.g.,  for a 1-inch bit).
4. In the **Oval Width** field, enter the stretch amount (e.g., .

5. The calculator displays the resulting oval dimensions immediately, formatted according to your **Oval Cut Direction** setting (V/H or H/V).

## ☐ Mobile / Tablet

1. Open the **Oval Calculator** from the main menu or avatar icon.
2. Check that **Bit Size** mode is selected at the top of the screen.
3. Tap the **Starting Bit** field and enter the bit diameter using the on-screen input.
4. Tap the **Oval Width** field and enter the stretch amount.
5. The resulting oval is calculated and displayed automatically.

## ☐ Example Calculation

Input	Value Entered	What It Represents
<b>Starting Bit</b>	1"	Round hole opened with a 1-inch bit
<b>Oval Width</b>	1/16"	Stretch applied beyond the round hole
<b>Resulting Oval (V/H)</b>	1-1/16 × 1	Oval dimensions as recorded on the spec sheet

The vertical dimension grows by the oval width; the horizontal dimension remains equal to the starting bit size. (Results will display in H/V order if your shop is configured that way — see **Oval Cut Direction** in Settings.)

## ☐ Tips for Accurate Entry

- ☐ **Use consistent fraction notation** — Spectre Cloud accepts standard fractional input (e.g.,  $1-1/16$ ). Enter values exactly as you would write them on a spec sheet.
- ☐ **Double-check your bit drawer** before entering — bit sizes stamped on shanks can wear; verify with a caliper if in doubt.
- ☐ **Oval width direction follows your V/H setting** — the stretch is applied along whichever axis is listed first in your Oval Cut Direction preference.
- ☐ **Don't mix modes mid-spec-sheet** — choose Bit Size mode or Direct Entry mode consistently across a bowler's spec sheet for clean historical records.

## Related Sections

- 5.2.1 — Setting up: Oval Cut Direction (V/H) in Settings
- 5.2.3 — Entering Oval Dimensions in Direct Entry mode

- 5.1 — Overview of the Oval Calculator
- 4.x — Spec Sheets: Recording Hole Measurements

**Tip:** If you are unsure whether a hole was stretched in the V or H direction, check your drill press setup notes or the physical ball before entering data — Spectre Cloud records the direction based on your Oval Cut Direction setting, so entering the correct stretch value in the correct context keeps your spec history accurate. *△ Verify the exact field names, mode selector label, and fraction input format against the live app — contact the Spectre team if your calculator screen differs from the steps above.*

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