# 2.4.1 Does your machine display Right Pitch Positive? (YES / NO)

> 2.4.1 calibration

Different drill presses use different sign conventions when displaying pitch values — some treat **right pitch as positive**, others treat it as negative. This setting tells Spectre Cloud how your machine reads pitch so that the values displayed in spec sheets and the oval calculator match what your press expects. Getting this right eliminates sign-reversal errors at the drill head.

## □□ Why Sign Convention Matters

Pitch direction — whether a value is positive or negative — is not universal across drill press manufacturers. If Spectre Cloud and your press use opposite conventions, a spec sheet showing `+1/8"` right pitch would need to be mentally reversed to `-1/8"` before drilling. Over time, that kind of manual correction introduces risk. This setting removes it entirely.

- □ When set correctly, pitch values in Spectre Cloud match your press readout exactly — no sign reversal needed at the machine.
- □ Reduces drilling errors caused by misread or mentally inverted pitch values.
- □ Particularly important in multi-staff shops where not every driller may know to apply a sign correction.
- □ If set incorrectly, every pitch value displayed will be the inverse of what the press expects — check this setting first if your drilled pitch is consistently opposite to the spec.

**Note:** This setting affects how pitch values are *displayed* throughout Spectre Cloud — it does not change the physical pitch recorded during a bowler fitting. The underlying measurement is preserved; only the sign used to represent it on screen is adjusted to match your machine.

# □□ Configuring the Right Pitch Sign Convention

1. Navigate to **Settings** from the top menu.
2. Locate the relevant settings section. ⚠ *Verify with your Spectre team: confirm which chapter or section of Settings this option lives in — likely Drill Press or Pitch Settings rather than Bit/Edge Settings.*
3. Find the **Right Pitch as Positive** option.
4. Select **Yes** if your press displays right pitch as a positive number, or **No** if your press displays right pitch as a negative number. ⚠ *Verify with your Spectre team: confirm whether this is a Y/N toggle, a Yes/No dropdown, or a checkbox.*
5. The change takes effect immediately across all pitch displays in Spectre Cloud. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

# □□ How the Setting Affects Displayed Pitch Values

| Physical Pitch Direction | Right Pitch as Positive: Yes | Right Pitch as Positive: No |
|---|---|---|
| Right pitch | `+1/8"` | `-1/8"` |
| Left pitch | `-1/8"` | `+1/8"` |
| No lateral pitch | `0` | `0` |

**Note:** Zero pitch is unaffected by this setting — a value of `0` is the same regardless of sign convention.

# □□ How to Determine Your Machine's Convention

If you are unsure how your press represents right pitch, the quickest way to confirm is to consult your press manual or run a known-pitch test drill and compare the readout to the spec. Common conventions by press type include:

- Many **dedicated bowling drill presses** (e.g. Jayhawk, Innovative) display right pitch as positive — but always verify with your specific model's documentation.
- Some **general-purpose milling machines** adapted for bowling use may follow a different convention depending on table orientation.
- When in doubt, drill a small test on a scrap plug with a known right pitch value and check the result against the spec before committing to a bowler's ball.

**Tip:** Check your press manual under "axis convention," "coordinate system," or "pitch direction" — these terms are commonly used in drill press documentation to describe sign behavior.

# Multi-Press and Multi-Location Shops

If your shop runs more than one drill press, or manages multiple locations, different machines may use different sign conventions. ⚠ *Verify with your Spectre team: confirm whether this setting can be configured independently per device or location, or whether it applies account-wide — consistent with the open question raised in 2.3.6.*

- Single-press shops: set once, leave alone.
- Multi-press shops: confirm each machine's convention and configure accordingly.
- Multi-location chains: coordinate with location managers before applying or changing this setting to avoid inconsistent pitch display across sites.

# ☁ Scope of This Setting

This setting is stored at the account level and syncs across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope, and whether per-device overrides are possible for multi-press environments — consistent with findings from 2.3.5 and 2.3.6.*

# Related Sections

- 2.3.6 — Configuring your milling machine orientation: flipping H/V for oval cuts
- 2.3.5 — Oval cut movement direction: V & H, V only, H only, None
- 2.4.2 — Next setting in this chapter *(if applicable)*
- 4.x — Spec Sheet: entering and reviewing pitch values
- 5.x — Oval Calculator: pitch interaction with oval cuts

**Tip:** This is one of the first settings to configure when installing Spectre Cloud in a new shop. Get it right on day one and pitch values will be unambiguous for every driller on your team from the start.

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