

2.5.1 Default Layout Type — VLS, 2LS, PAL (Mo Pinel), or NONE

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2.5.1 layout

The **Default Layout Type** setting controls which layout system Spectre Cloud pre-selects when a new spec sheet is created. Rather than choosing a layout method from scratch every time, your preferred system is ready to go from the moment a sheet is opened. This setting can be changed at any time and overridden on individual spec sheets without affecting the default.

☐☐ The Four Layout Types

Spectre Cloud supports three active layout systems plus a no-layout option. Each system represents a different method for determining where a bowling ball's pin and mass bias are positioned relative to the bowler's track and grip center.

☐☐ VLS — Vertical Line System

The **Vertical Line System** positions the pin along a vertical line relative to the grip center, with the mass bias placed at a specified distance below the fingers. VLS is widely used in the industry and is the default layout method for many pro shops.

- Simple, widely understood, and IBPSIA-endorsed.
- Well-suited for shops serving a broad range of bowler skill levels.
- Pin distance and VAL (Vertical Axis Line) angle are the primary inputs.

2LS — Two-Layout System

The **Two-Layout System** uses two measurements — typically pin-to-PAP (Positive Axis Point) distance and pin buffer — to define ball motion. 2LS is popular among coaches and advanced bowlers who want a more precise relationship between ball dynamics and the bowler's PAP.

- More precise control over ball motion characteristics.
- Preferred by competitive bowlers and coaches working with PAP-based fitting.
- Requires accurate PAP measurement for reliable results.

Dual Angle

The **Dual Angle** layout system defines ball position using three values: drilling angle, pin distance, and VAL angle. It offers the most granular control over ball motion and is favored by advanced fitters and coaches who want to fine-tune skid, flip, and continuation independently.

- Highest level of precision — three input values fully define the layout.
- Widely used in competitive and coaching environments.
- Best suited for experienced fitters comfortable with all three input values.
- More complex than VLS or 2LS — not recommended as a default for shops serving primarily recreational bowlers.

None

Selecting **None** means no layout system is pre-selected when a new spec sheet is created. The layout section of the spec sheet is left blank until the driller chooses a method manually.

- Suits shops that use different layout methods depending on the bowler or ball.
- Prevents any single method from being applied by default when the shop has no consistent preference.
- Requires a manual selection on every spec sheet — adds a step to each fitting session.

Layout Type Comparison

Layout Type	Primary Inputs	Best For	Complexity
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VLS	Pin distance, VAL angle, MB position	General pro shop use; mixed skill levels	Low
2LS	Pin-to-PAP distance, pin buffer	PAP-based fitting; competitive bowlers	Medium
Dual Angle	Drilling angle, pin distance, VAL angle	Advanced fitters; competitive and coaching	High
None	—	Mixed-method shops; manual selection each time	—

Tip: Not sure which to set as your default? If the majority of your bowlers are recreational or beginner, **VLS** is the most accessible starting point. If you work primarily with league or competitive bowlers, consider **2LS** or **Dual Angle** based on your fitting philosophy.

☐☐ Setting the Default Layout Type



1. Navigate to **Settings** from the top menu.
2. Locate the relevant settings section. [△ Verify with your Spectre team: confirm the exact section name for 2.5.x settings.](#)
3. Find the **Default Layout Type** option.
4. Select **VLS**, **2LS**, **Dual Angle**, or **None** from the available options. [△ Verify with your Spectre team: confirm whether this is a dropdown, radio button group, or segmented control.](#)
5. The change takes effect immediately for all new spec sheets created going forward. [△ Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in Book 02.](#)

Note: Changing the default layout type does not affect any existing spec sheets — previously saved layouts remain exactly as they were recorded.


☐☐ Overriding the Default on Individual Spec Sheets

The default layout type is a convenience setting — it does not lock every spec sheet to that method. On any individual spec sheet, the layout type can be changed freely before or during the fitting without affecting the account default.


- ☐ Change the layout type on a spec sheet at any time before saving.
- ☐ The account default remains unchanged — the override applies to that sheet only.

-  Cloned spec sheets carry forward the layout type of the original, not the current default.  *Verify with your Spectre team: confirm clone behavior for layout type.*

Arsenal Plus Plugin

Users with the **Arsenal Plus plugin** have access to additional layout features including suggested layouts, layout conversion, and 3D layout rendering. The default layout type set here determines which system those suggestions and conversions are based on.  *Verify with your Spectre team: confirm how the default layout type interacts with Arsenal Plus suggested layouts and conversion tools.*

Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets created on any device.  *Verify with your Spectre team: confirm per-user vs. per-account/shop scope, consistent with the open question carried across 2.3.5 through 2.4.4.*

Related Sections

- 2.5.2 — Next setting in this chapter *(if applicable)*
- 4.x — Spec Sheet: selecting and entering a layout
- 7.x — Arsenal: layouts and ball motion
- 7.x — Arsenal Plus: suggested layouts and layout conversion
- 1.x — Getting Started: initial shop setup checklist

Tip: If your shop is transitioning from one layout system to another — for example, moving from VLS to Dual Angle as your team's skills develop — update this setting to reflect the new default and leave a note in your shop's internal documentation. Bowlers with existing spec sheets will retain their original layout type in history, making it easy to compare old and new approaches side by side.

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