2.6 — Auto-Suggestions

2.6.1 Overview — why leaving all Auto-Suggestions ON saves time

Overview — why leaving all Auto-Suggestions ON saves time

2.6.1 TIP auto

Spectre Cloud includes a suite of **auto-suggestion features** that automatically populate recommended values across spec sheets as you work — finger and thumb sizes, pitches, spans, surface finishes, and more. These suggestions are grounded in **IBPSIA standards** and the bowler's own fitting history. This page explains what the auto-suggestion system does, why it is designed to be left on by default, and when manual override makes sense.

What Auto-Suggestions Do

As a spec sheet is filled in, Spectre Cloud's auto-suggestion engine monitors the values entered and surfaces recommended figures for fields that haven't been completed yet. Suggestions draw from two sources:

- **IBPSIA standards** — industry-recognised starting points for pitch, span, and sizing based on hand measurements and grip style.

- **Bowler history** — values from the bowler's previous spec sheets, weighted toward their most recently drilled equipment.

Together these sources mean that for a returning bowler, most of a new spec sheet can be populated in seconds — and for a first-time bowler, IBPSIA-based defaults give the fitter a reliable, professionally grounded starting point rather than a blank form.

The Time Saving Case for Keeping Auto-Suggestions On

The cumulative time saved by auto-suggestions is significant in a busy pro shop. Consider a typical spec sheet workflow:

Task	Without Auto-Suggestions	With Auto-Suggestions
Returning bowler — same grip style	Re-enter all values from memory or a paper record	Review pre-populated values, confirm or adjust, done
New bowler — first fitting	Calculate IBPSIA starting points manually	IBPSIA values suggested automatically; adjust from there
Cloned spec sheet — new ball	Re-enter all values from the original sheet	History-based suggestions pre-fill unchanged values
Multi-ball session — same bowler	Repeat full entry for each ball	Consistent values suggested across all sheets in the session

Across dozens of fittings per week, the difference between reviewing a pre-filled form and building one from scratch adds up to hours of saved time — and reduces the risk of transcription errors introduced by manual re-entry.

Auto-Suggestions Are Starting Points, Not Locks

Every auto-suggested value in Spectre Cloud can be overridden manually at any time. The suggestion engine is designed to do the heavy lifting on values that are likely to be correct, so the fitter's attention can focus on the values that require judgment.

- Accept a suggestion by leaving the field as populated — no extra step needed.
- Override a suggestion by simply typing or selecting a different value — the system does not resist or warn against overrides.

- Overridden values are saved to the bowler's history and inform future suggestions — the engine learns from actual drilled values, not just IBPSIA defaults.
- Auto-suggestions are not a substitute for a physical fitting — always verify suggested values against the bowler's hand before drilling.

Note: A suggestion appearing in a field does not mean it has been confirmed or saved. Always review every field on a spec sheet before saving, regardless of whether the value was suggested or entered manually.

Which Fields Are Covered by Auto-Suggestions

Auto-suggestions apply across a range of spec sheet fields. The exact set of suggested fields is configurable — individual suggestion types can be turned off in Settings if your shop's workflow calls for it. The full list of configurable auto-suggestion settings begins at **2.6.2**. Fields that can be auto-suggested include:

- Finger hole sizes
- Thumb hole size
- Finger and thumb pitches
- Span measurements
- Surface finish recommendations
- Layout values (where a structured layout type is selected)

Note: ⚠ *Verify with your Spectre team: confirm the complete list of fields covered by auto-suggestions, and whether any fields are always suggested regardless of individual toggle settings.*

⚙ When Turning Off Individual Suggestions Makes Sense

While leaving all auto-suggestions on is the recommended default, there are legitimate reasons to disable specific suggestion types:

- **Training new staff** — turning off suggestions temporarily forces trainees to calculate values independently, building genuine fitting knowledge rather than relying on the system.

- **Specialist fitting styles** — shops with highly specific surface or pitch philosophies may prefer not to have IBPSIA defaults suggested, as they create an extra dismiss step in every fitting.
- **Data integrity during migration** — when importing legacy data, turning off history-based suggestions prevents old records from influencing new fittings until the imported data has been reviewed.
- Turning off all suggestions globally is not recommended for ongoing shop use — the time cost accumulates quickly and the risk of manual re-entry errors increases.

Auto-Suggestions Across Devices

Because Spectre Cloud is cloud-based, auto-suggestion data — including the bowler's fitting history that informs suggestions — is available on every device logged into the account. A fitting started on a desktop in the morning will inform suggestions on a tablet in the afternoon, with no manual sync required.

- History-based suggestions are consistent across all devices in real time.
- IBPSIA-based suggestions are the same regardless of device or location.
- Multi-location shops benefit from shared suggestion history across sites — a bowler fitted at one location will have their history available at any other location on the same account. ⚠ *Verify with your Spectre team: confirm whether bowler fitting history is shared across locations on a multi-location account, or whether it is scoped per location.*

Related Sections

- 2.6.2 — Auto-suggestion settings: finger hole sizes
- 2.6.3 — Auto-suggestion settings: thumb hole size *(if applicable)*
- 2.6.x — Individual auto-suggestion toggle pages
- 4.x — Spec Sheet: reviewing and confirming auto-suggested values
- 9.x — Tips and Troubleshooting: auto-suggestions not appearing

Tip: Think of auto-suggestions as a well-trained assistant who has read every spec sheet your shop has ever produced. They will pre-fill the form based on what has worked before — but you are always the fitter, and the final call is always yours.

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2.6.2 Pitch Suggestion — auto forward pitch based on hand flexibility

Pitch Suggestion — auto forward pitch based on hand flexibility

> 2.6.2 auto

The **Pitch Suggestion** setting controls whether Spectre Cloud automatically recommends a forward thumb pitch value based on the bowler's recorded **hand flexibility**. When enabled, the auto-suggestion engine uses the flexibility measurement taken during the bowler's fitting to propose a starting forward pitch — saving the fitter from consulting a reference chart manually and reducing the risk of applying an out-of-range pitch for a bowler's hand type.

□□ How Hand Flexibility Informs Forward Pitch

Forward pitch is one of the most directly comfort-driven measurements in a bowling fitting. Too much forward pitch restricts the thumb's exit from the ball; too little — or reverse pitch applied without justification — can cause the thumb to hang or the ball to drop early. Hand flexibility is a reliable proxy for where to start the forward pitch conversation:

- **Less flexible hands** — typically benefit from more forward pitch to accommodate the thumb's natural resting angle and ease insertion and extraction.
- **More flexible hands** — can comfortably tolerate less forward pitch or even mild reverse pitch, supporting a cleaner, faster release.
- Spectre Cloud's suggestion uses the flexibility value already recorded in the bowler's profile or spec sheet to calculate a recommended starting pitch — no separate lookup required.
- Flexibility-based suggestions are a starting point only — always verify with a physical fitting before drilling. Other factors including thumb shape, knuckle size, skin condition, and personal preference all influence the final pitch decision.

Note: ⚠ *Verify with your Spectre team: confirm exactly how hand flexibility is measured and recorded in Spectre Cloud — whether it is a numeric measurement, a category selection (e.g. low/medium/high), or a derived value from another measurement — and confirm which formula or chart the auto-suggestion engine uses to translate flexibility to a forward pitch recommendation.*

Enabling or Disabling Pitch Suggestion

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 2.6.x settings, consistent with the navigation path used in earlier chapters.*
3. Find the **Pitch Suggestion** option.
4. Toggle the setting on or off according to your shop's preference. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all new spec sheets. Existing spec sheets are not affected. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this book.*

What the Suggestion Looks Like in Practice

When Pitch Suggestion is enabled and a bowler's flexibility value is on record, the forward pitch field on a new spec sheet will be pre-populated with the suggested value. The fitter can accept it, adjust it, or clear it entirely.

Hand Flexibility	Typical Suggested Forward Pitch	Rationale

Low flexibility	3/8" – 1/2" forward	Thumb sits at a steeper natural angle; more forward pitch eases fit and exit
Medium flexibility	1/4" forward	IBPSIA standard starting point for average hand flexibility
High flexibility	0 – 1/8" forward	Flexible thumb can accommodate less pitch; supports cleaner release

Note: The pitch values above are general IBPSIA-informed illustrations. The exact values Spectre Cloud suggests may differ based on its internal formula. ⚠ *Verify with your Spectre team: confirm the actual suggestion thresholds and output values used by the engine, and update this table accordingly before publishing.*

□□ Relationship to Other Pitch Settings

Pitch Suggestion works alongside the pitch display settings configured in chapter 2.4. The suggested value is displayed using whichever sign convention and directional indicator format is active for your account — so the suggestion will always appear in the format your press expects, not just as a raw number.

- □ The suggested pitch value respects the **forward pitch as positive** sign convention set in 2.4.2.
- □ If directional indicators are enabled (2.4.3), the suggestion will display with the appropriate direction arrow or label.
- □ Overriding the suggestion is treated the same as any other manual pitch entry — the override is saved to history and informs future suggestions for that bowler.

⚙ When to Consider Turning This Off

- □ **Training new staff** — disabling pitch suggestion requires trainees to derive forward pitch from hand flexibility manually, reinforcing the underlying fitting logic.
- □ **Shops with a fixed pitch philosophy** — if your shop applies a consistent pitch approach regardless of flexibility measurement, the suggestion may create an unnecessary override step on every sheet.
- □ **Bowlers with atypical hand anatomy** — for bowlers whose pitch needs are driven by injury, surgery, or structural differences rather than flexibility alone, manual pitch entry

may be more appropriate than a flexibility-based suggestion.
- □ Turning this off globally increases the risk of a fitter applying a default or remembered pitch without reference to the bowler's actual flexibility — the suggestion exists precisely to prevent that.

☁ Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope, consistent with the outstanding question across 2.3.5 through 2.6.x — this chapter would be a good place to resolve and document that answer definitively.*

Related Sections

- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.6.3 — Next auto-suggestion setting *(if applicable)*
- 2.4.2 — Does your machine display forward thumb pitch as positive? Y/N
- 2.4.3 — Display +/- in pitch tiles: showing direction arrows to avoid errors
- 4.x — Spec Sheet: entering and reviewing pitch values
- 3.x — Bowlers: recording hand flexibility in a bowler profile

Tip: Hand flexibility changes over time — particularly for older bowlers or those managing arthritis or injury. If a returning bowler's pitch suggestion seems off, check whether their flexibility measurement in Spectre Cloud is current before overriding the suggestion manually. Updating the flexibility value will recalibrate the suggestion for all future spec sheets.

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2.6.3 Auto-CLT — lateral pitch of fingers based on CLT chart

Auto-CLT — lateral pitch of fingers based on CLT chart

> 2.6.3 auto

The **Auto-CLT** setting controls whether Spectre Cloud automatically suggests a **lateral pitch value for the finger holes** based on the bowler's **Center Line Transformation (CLT)** measurement. When enabled, the auto-suggestion engine consults the CLT chart and pre-populates the lateral finger pitch field on new spec sheets, removing the need for the fitter to look up and enter the value manually.

□□ What Is Center Line Transformation (CLT)?

Center Line Transformation is a measurement taken during the fitting process that captures how the bowler's finger centerline relates to the grip center of the ball. This relationship directly influences how much lateral pitch — if any — the finger holes require to achieve a comfortable, neutral fit that does not place undue stress on the fingers during the swing or release.

- □ CLT quantifies the natural lateral offset of the bowler's fingers relative to the ball's grip center.

- □ The resulting lateral pitch recommendation compensates for this offset, aligning the finger holes with the bowler's natural grip orientation.
- □ Getting lateral finger pitch right reduces grip fatigue, finger stress, and inconsistent ball exit — particularly over a long bowling session or tournament.
- □ CLT-based suggestions are a starting point — individual factors such as finger shape, knuckle prominence, and personal comfort should always be assessed physically before drilling.

Note: ⚠ *Verify with your Spectre team: confirm exactly how CLT is measured and recorded in Spectre Cloud — whether it is a numeric value, a derived figure from other measurements, or a category selection — and confirm which CLT chart version the suggestion engine references.*

□□ How the CLT Chart Translates to Lateral Pitch

The CLT chart maps a bowler's CLT measurement to a recommended lateral pitch value for the finger holes. Spectre Cloud's Auto-CLT engine performs this lookup automatically when a new spec sheet is opened for a bowler with a CLT measurement on record.

CLT Value	Suggested Lateral Pitch Direction	Rationale
Significant offset toward ring finger	Lateral pitch toward ring finger	Compensates for finger centerline displaced toward the ring side
Minimal offset	Zero lateral pitch	Finger centerline aligns naturally with grip center — no compensation needed
Significant offset away from ring finger	Lateral pitch away from ring finger	Compensates for finger centerline displaced toward the middle finger side

Note: The table above illustrates the directional logic of CLT-based lateral pitch suggestions. Specific numeric thresholds and output values must be confirmed with the Spectre team before publishing. ⚠ *Verify with your Spectre team: confirm the actual CLT measurement ranges and corresponding lateral pitch values used by the suggestion engine, and update this table with precise figures.*

□□ Enabling or Disabling Auto-CLT

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 2.6.x settings, consistent with earlier pages in this chapter.*
3. Find the **Auto-CLT** option.
4. Toggle the setting on or off according to your shop's preference. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all new spec sheets. Existing spec sheets are not affected. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

□□ Relationship to Other Pitch Settings and Auto-Suggestions

Auto-CLT operates alongside the other pitch-related settings in chapters 2.4 and 2.6. The lateral pitch value it suggests is displayed using the same sign convention and directional indicator format active for your account — so the suggestion appears in the format your press expects.

- □ The suggested lateral pitch respects the **right pitch as positive** sign convention set in **2.4.1**.
- □ If directional indicators are enabled (**2.4.3**), the Auto-CLT suggestion will display with the appropriate direction arrow or label.
- □ Auto-CLT applies to **finger lateral pitch specifically** — it does not affect thumb lateral pitch, which is governed by separate fitting measurements. ⚠ *Verify with your Spectre team: confirm whether Auto-CLT applies to both fingers independently, or to the finger pair as a single value.*
- □ Overriding the Auto-CLT suggestion is treated the same as any other manual pitch entry — the override is saved to the bowler's history and informs future suggestions.

⚙ When to Consider Turning Auto-CLT Off

- □ **Training new staff** — disabling Auto-CLT requires trainees to consult the CLT chart manually and derive lateral pitch independently, building genuine fitting knowledge.
- □ **Bowlers with incomplete CLT records** — if a bowler's CLT has not been measured or recorded in Spectre Cloud, the suggestion cannot fire. In these cases, Auto-CLT being on has no effect, but turning it off clarifies that manual entry is always expected for this bowler.

- **Shops that do not use CLT-based fitting** — if your shop derives lateral finger pitch from a different methodology entirely, Auto-CLT suggestions will conflict with your approach on every spec sheet.
- Turning Auto-CLT off in a CLT-based shop increases the risk of a fitter skipping lateral pitch entirely or applying a default value without reference to the bowler's actual measurement.

What Happens When No CLT Is on Record

If a bowler does not have a CLT measurement recorded in Spectre Cloud, the Auto-CLT engine has no data to work from and will not populate the lateral pitch field. The field will remain blank pending manual entry.

- No suggestion is preferable to a wrong suggestion — Spectre Cloud will not guess a lateral pitch value without a CLT measurement to base it on.
- To enable Auto-CLT suggestions for a bowler, ensure their CLT measurement is recorded in their profile before opening a new spec sheet. ⚠ *Verify with your Spectre team: confirm where CLT is recorded in Spectre Cloud — on the bowler profile, on individual spec sheets, or both.*

☁ Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope — this chapter is the right place to resolve this question definitively and apply the answer retroactively across all affected pages from 2.3.5 onward.*

Related Sections

- 2.6.2 — Pitch suggestion: auto forward pitch based on hand flexibility
- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.6.4 — Next auto-suggestion setting *(if applicable)*
- 2.4.1 — Does your machine display right pitch as positive? Y/N
- 2.4.3 — Display +/- in pitch tiles: showing direction arrows to avoid errors
- 3.x — Bowlers: recording CLT in a bowler profile
- 4.x — Spec Sheet: entering and reviewing lateral finger pitch

Tip: CLT is one of those measurements that pays dividends over time — a bowler fitted with accurate lateral finger pitch early in their history will have better Auto-CLT suggestions on every ball that follows. Make recording CLT a routine part of every new bowler intake, not just an occasional step, and the suggestion engine will do progressively more of the work for you.

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2.6.4 Auto-Invert standard lateral pitches when changing from RH to LH

Auto-Invert standard lateral pitches when changing from RH to LH

> 2.6.4 auto

The **Auto-Invert** setting controls whether Spectre Cloud automatically mirrors lateral pitch values when a spec sheet is switched between a **right-handed (RH)** and **left-handed (LH)** bowler — or when a new spec sheet is created for a left-handed bowler based on an existing right-handed template. Because lateral pitch directions are physically opposite for RH and LH bowlers, a value that is correct for one hand will be incorrect for the other without inversion. This setting handles that conversion automatically.

□□ Why Lateral Pitch Inverts Between RH and LH Bowlers

Lateral pitch is defined relative to the bowler's grip — specifically, toward or away from the ring finger side. Because the hands are mirror images of each other, a pitch direction that moves toward the ring finger on a right-handed bowler moves in the physically opposite direction on a left-

handed bowler. If a spec sheet or template is copied across handedness without inverting lateral pitch, the drilled result will be a mirror-image error.

- **Right-handed bowler:** lateral pitch toward the ring finger tilts the hole opening to the right when viewed from above.
- **Left-handed bowler:** lateral pitch toward the ring finger tilts the hole opening to the left — the physical opposite direction.
- Auto-Invert handles this conversion silently — the fitter sees the correct value for the bowler's hand without needing to manually reverse any figures.
- Without Auto-Invert, copying a spec sheet or layout from a RH bowler to a LH bowler without manually checking and reversing lateral pitch values will produce an incorrectly drilled ball.

Note: Auto-Invert applies to **lateral pitch values only** — forward/reverse pitch and span measurements are not affected, as these do not change direction between RH and LH bowlers. ⚠ *Verify with your Spectre team: confirm the complete list of fields affected by Auto-Invert, and whether any additional values beyond lateral pitch are inverted.*

Enabling or Disabling Auto-Invert

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 2.6.x settings, consistent with earlier pages in this chapter.*
3. Find the **Auto-Invert** option.
4. Toggle the setting on or off. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all subsequent handedness changes and spec sheet operations involving a switch between RH and LH. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

Auto-Invert in Common Workflows

Auto-Invert is most relevant in three specific situations. In each case, enabling the setting means the fitter can proceed without manually checking and reversing lateral pitch values.

Workflow	Without Auto-Invert	With Auto-Invert

Cloning a RH spec sheet for a LH bowler	Lateral pitch values carry over unchanged — must be manually reversed before drilling	Lateral pitch values are automatically mirrored on clone
Switching a bowler's handedness setting on their profile	Existing lateral pitch values remain as entered — no automatic correction	Lateral pitch values on associated spec sheets are updated to reflect the new handedness
Creating a new LH spec sheet using a RH template	Template lateral pitch values must be manually inverted before use	Template lateral pitch values are automatically mirrored when applied to a LH bowler

Note: ⚠ *Verify with your Spectre team: confirm which of the three workflows above Auto-Invert actually applies to in the current version of Spectre Cloud, and whether "switching a bowler's handedness on their profile" retroactively updates existing spec sheets or only affects new ones created afterward.*

□□ Relationship to Other Auto-Suggestion Settings

Auto-Invert works alongside the other auto-suggestion settings in chapter 2.6. It is most closely related to Auto-CLT (2.6.3), since CLT-based lateral pitch suggestions are also direction-sensitive.

- □ When both **Auto-CLT** and **Auto-Invert** are enabled, a CLT-based lateral pitch suggestion generated for a LH bowler will already reflect the correct direction — Auto-Invert and Auto-CLT work in the same direction, not against each other.
- □ Auto-Invert also applies to manually entered lateral pitch values, not just auto-suggested ones — any lateral pitch on a cloned or templated sheet is subject to inversion when handedness changes.
- □ The inverted value respects the **right pitch as positive** sign convention set in **2.4.1** — the sign will flip correctly for the LH bowler's convention. ⚠ *Verify with your Spectre team: confirm that Auto-Invert correctly interacts with the 2.4.1 sign convention setting for LH bowlers.*

⚙ When to Consider Turning Auto-Invert Off

- □ **Shops that never clone specs across handedness** — if your shop always builds LH spec sheets from scratch, Auto-Invert has no effect and can safely be left off without risk.

- **Training new staff** — disabling Auto-Invert requires trainees to consciously identify and reverse lateral pitch values when working across handedness, reinforcing the underlying geometric logic.
- **Workflows with manual handedness management** — some shops maintain separate template sets for RH and LH bowlers and prefer explicit control over every value rather than automatic inversion.
- Turning Auto-Invert off in a shop that regularly clones specs or shares templates across RH and LH bowlers significantly increases the risk of drilling an incorrectly pitched ball — the error may not be caught until the bowler has thrown several games.

A Note on Ambidextrous Bowlers

Some bowlers throw with both hands — for example, switching to their non-dominant hand for spares. If separate spec sheets exist for both hands, Auto-Invert ensures that lateral pitch values are correctly oriented for each hand when spec sheets are created or cloned across handedness.

- Maintain separate bowler profiles or clearly labeled spec sheets for each hand.
- When creating the second-hand spec sheet from the first, Auto-Invert will handle lateral pitch direction automatically. ⚠ *Verify with your Spectre team: confirm whether Spectre Cloud supports recording both RH and LH spec sheets under a single bowler profile, or whether separate profiles are required for ambidextrous bowlers.*

☁ Scope of This Setting

This setting is stored at the account level and applies to all spec sheet operations across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope — resolving this question here and applying it retroactively across all affected pages from 2.3.5 onward remains an outstanding action for the Spectre team.*

Related Sections

- 2.6.3 — Auto-CLT: lateral pitch of fingers based on CLT chart
- 2.6.2 — Pitch suggestion: auto forward pitch based on hand flexibility
- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.6.5 — Next auto-suggestion setting *(if applicable)*
- 2.4.1 — Does your machine display right pitch as positive? Y/N
- 3.x — Bowlers: recording handedness in a bowler profile

- 4.x — Spec Sheet: cloning and applying templates

Tip: Left-handed bowlers make up roughly 10–15% of the bowling population — a busy shop will fit several per week. Auto-Invert is a small setting with a disproportionately large safety payoff: one enabled toggle prevents a whole category of handedness-related drilling errors from ever reaching the press.

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2.6.5 Autofill Bridge — auto standard bridge (1/4" Fingertip, 3/8" conventional)

Autofill Bridge — auto standard bridge (1/4" Fingertip, 3/8" conventional)

> `2.6.5` `auto`

The **Autofill Bridge** setting controls whether Spectre Cloud automatically populates the bridge measurement field on a new spec sheet based on the bowler's grip style. When enabled, the engine applies the industry-standard bridge width for the detected grip type — `1/4"` for fingertip grips and `3/8"` for conventional grips — without the fitter needing to enter the value manually. For the vast majority of bowlers whose bridge falls at the standard width, this eliminates a repetitive data entry step on every spec sheet.

□□ What Is the Bridge?

The **bridge** is the distance between the edge of the middle finger hole and the edge of the ring finger hole. It is one of the smallest measurements on a spec sheet but one of the most consistently standardised — most bowlers use the industry-standard width for their grip type, and deviations from standard are the exception rather than the rule.

- **Fingertip grip standard:** `1/4"` — the narrower bridge suits the extended finger position used in fingertip grips.
- **Conventional grip standard:** `3/8"` — the slightly wider bridge accommodates the deeper finger insertion of a conventional grip.
- Both values are IBPSIA-recognised standards and represent the correct starting point for the overwhelming majority of bowlers in each grip category.
- Some bowlers require a non-standard bridge due to finger spacing, injury, or personal preference — for these bowlers, the autofill value should be overridden manually.

Note: The bridge measurement is small but consequential — an incorrect bridge width affects finger comfort and ball exit consistency. Always confirm the suggested value is appropriate for the individual bowler before saving the spec sheet.

Enabling or Disabling Autofill Bridge

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 2.6.x settings, consistent with earlier pages in this chapter.*
3. Find the **Autofill Bridge** option.
4. Toggle the setting on or off according to your shop's preference. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all new spec sheets. Existing spec sheets are not affected. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

Autofill Bridge Values by Grip Type

Grip Type	Autofill Bridge Value	Notes
Fingertip	`1/4"`	IBPSIA standard for fingertip grip; suits the majority of fingertip bowlers
Conventional	`3/8"`	IBPSIA standard for conventional grip; suits the majority of conventional bowlers
Semi-fingertip	⚠ *Verify with Spectre team*	Confirm whether a standard autofill value exists for semi-fingertip grips

Note: Autofill Bridge requires the bowler's grip type to be recorded in Spectre Cloud in order to apply the correct value. If no grip type is on record, the field will remain blank pending manual entry. ⚠ *Verify with your Spectre team: confirm whether Spectre Cloud falls back to a default value when grip type is unknown, or leaves the field blank.*

□□ How Grip Type Is Determined

Spectre Cloud reads the grip type from the bowler's profile or from the current spec sheet, depending on how your shop records this information. The autofill fires as soon as a grip type is present — either carried forward from the bowler's history or entered at the start of a new fitting session.

- □ Returning bowlers with a grip type on record will have the bridge field populated immediately when a new spec sheet is opened.
- □ New bowlers will have the bridge field populated as soon as grip type is selected during the fitting.
- □ Changing grip type mid-session updates the autofill value in real time. ⚠ *Verify with your Spectre team: confirm whether changing the grip type on a spec sheet in progress triggers a live update to the bridge field, or whether the autofill only fires on sheet creation.*

⚙ When to Override the Autofill Value

The standard bridge values cover the majority of bowlers, but manual override is appropriate in a number of situations:

- □ **Wide finger spacing** — some bowlers with naturally wide-set fingers are more comfortable with a slightly wider bridge than the standard.
- □ **Narrow finger spacing** — bowlers with closely spaced fingers may prefer a `3/16"` bridge or smaller.
- □ **Injury or surgery** — bowlers recovering from finger injuries may require a non-standard bridge to reduce stress on the affected finger.
- □ **Youth bowlers** — younger bowlers with smaller hands sometimes benefit from a narrower bridge regardless of grip type.
- □ **Inserts** — some finger insert styles influence optimal bridge width; confirm with the insert manufacturer's guidelines.

Tip: If a returning bowler has a non-standard bridge on their existing spec sheets, Spectre Cloud's history-based suggestion system may carry that value forward automatically — check whether the autofill or the history value takes precedence when both are available. ⚠ *Verify with your Spectre team: confirm the priority order between Autofill Bridge and bowler history when both a grip-type default and a historical bridge value are available for the same bowler.*

⚙ When to Consider Turning Autofill Bridge Off

- **Training new staff** — disabling Autofill Bridge requires trainees to consciously select and enter the bridge value on every spec sheet, reinforcing the IBPSIA standard values and the logic behind them.
- **Shops with a non-standard bridge philosophy** — if your shop routinely uses a bridge width other than the IBPSIA standard for most bowlers, the autofill will create an override step on every sheet.
- Turning Autofill Bridge off in a standard-practice shop adds a repetitive manual entry step to every fitting with no meaningful benefit — the autofill value is correct for the majority of bowlers and easily overridden when it is not.

☁ Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope — this question has persisted from 2.3.5 through 2.6.5 and must be resolved and applied retroactively across all affected pages before this chapter is published.*

Related Sections

- 2.6.4 — Auto-invert standard lateral pitches when changing from RH bowler to LH
- 2.6.3 — Auto-CLT: lateral pitch of fingers based on CLT chart
- 2.6.2 — Pitch suggestion: auto forward pitch based on hand flexibility
- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.6.6 — Next auto-suggestion setting *(if applicable)*
- 3.x — Bowlers: recording grip type in a bowler profile
- 4.x — Spec Sheet: entering and reviewing bridge measurements

Tip: Bridge is one of the most consistently standard measurements in pro shop fitting — the IBPSIA values hold for the vast majority of bowlers. Autofill Bridge is the auto-suggestion setting with the

highest acceptance rate and the lowest override frequency. Leave it on and let it do its job.

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2.6.6 Autofill Insert OD — auto drill bit size per insert type and grip

Autofill Insert OD — auto drill bit size per insert type and grip

> 2.6.6 auto

The **Autofill Insert OD** setting controls whether Spectre Cloud automatically suggests the correct drill bit size for a bowler's finger holes based on their **insert type** and **grip style**. Insert OD (Outside Diameter) refers to the outer diameter of the finger insert being used — the drill bit must match this diameter precisely to achieve the correct fit. When enabled, Spectre Cloud pre-populates the drill bit size field as soon as insert type and grip are recorded, eliminating a manual lookup step and reducing the risk of drilling a hole sized for the wrong insert.

□□ What Is Insert OD?

Finger inserts are small gripping devices — typically made from urethane or similar materials — that are fitted into the finger holes of a bowling ball to provide a consistent, cushioned grip surface. Each insert has a specific **Outside Diameter (OD)**, which is the measurement the drill bit must match when cutting the hole. Using the wrong bit size produces a hole that is either too tight (requiring force to seat the insert, risking cracking) or too loose (causing the insert to slip or fall out).

- □ Insert OD varies by insert brand, model, and size — there is no universal drill bit size for all inserts.
- □ Grip style also influences the correct OD — fingertip and conventional grips use different insert seating depths, which can affect the effective fit.
- □ Autofill Insert OD removes the need to consult a per-brand reference chart on every spec sheet where inserts are used.
- □ Insert OD values can change when manufacturers update their product lines — Spectre Cloud's insert database should be treated as a starting point and verified against current manufacturer specifications. ⚠ *Verify with your Spectre team: confirm how frequently the insert OD database in Spectre Cloud is updated, and whether shops are notified when values change.*

□□ How Insert OD Is Determined

When Autofill Insert OD is enabled, Spectre Cloud cross-references two pieces of information already on the spec sheet to derive the correct drill bit size:

Input	Why It Matters
Insert type / brand / model	Each insert product has a published OD — the bit size must match this value
Grip style	Fingertip and conventional grips seat inserts differently, which may influence the recommended bit size for a given insert model

With both values present, the autofill engine looks up the correct OD from its insert database and populates the drill bit size field. If either value is missing, the field remains blank pending manual entry.

Note: ⚠ *Verify with your Spectre team: confirm the exact fields Spectre Cloud uses to determine insert OD — specifically whether grip style is a direct input to the OD lookup, or whether it only indirectly influences the recommendation through other spec sheet values.*

□□ Enabling or Disabling Autofill Insert OD

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 2.6.x settings, consistent with earlier pages in this chapter.*
3. Find the **Autofill Insert OD** option.

4. Toggle the setting on or off according to your shop's preference. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all new spec sheets. Existing spec sheets are not affected. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

□□ What Happens When Insert Type Changes Mid-Sheet

If the insert type or grip style is changed after the OD field has already been autofilled, Spectre Cloud should update the suggested bit size to reflect the new combination. ⚠ *Verify with your Spectre team: confirm whether the OD field updates dynamically when insert type or grip style changes on an in-progress spec sheet, consistent with the live-update question raised for Autofill Bridge in 2.6.5.*

- □ If the insert type is changed to one not in Spectre Cloud's database, the OD field should clear and prompt manual entry rather than retaining an incorrect value.
- □ Any manually entered OD value takes precedence over the autofill — overrides are saved to the spec sheet history as entered.

□□ Insert OD Reference — Common Insert Types

The table below lists commonly used insert types and their typical OD values as a reference. Always verify against current manufacturer specifications before drilling — insert dimensions can change between product generations. ⚠ *Verify with your Spectre team: confirm all OD values in this table, add any missing insert brands or models carried by your shop, and confirm that these values match what Spectre Cloud's autofill engine uses.*

Insert Brand / Type	Grip Style	Typical OD / Drill Bit Size
Storm Sure-Fit	Fingertip	⚠ *Verify with Spectre team*
Vise IT	Fingertip	⚠ *Verify with Spectre team*
Turbo Switch Grip	Fingertip	⚠ *Verify with Spectre team*
No insert (bare hole)	Fingertip or Conventional	Sized to bowler's finger measurement directly — no OD lookup

Note: Insert OD values have been left blank in this table pending verification — publishing incorrect OD figures would directly cause drilling errors. Do not fill in these values without confirmation from the Spectre team or the relevant manufacturer's current specification sheet.

⚙ When to Consider Turning Autofill Insert OD Off

- **Training new staff** — disabling Autofill Insert OD requires trainees to look up OD values from manufacturer charts manually, building essential product knowledge.
- **Shops carrying inserts not in the Spectre Cloud database** — if your primary insert brand is not recognised by the autofill engine, the field will regularly be left blank anyway; turning the setting off sets a clear expectation of manual entry.
- **Custom or modified inserts** — shops that modify inserts or source non-standard products should always enter OD manually, as the database cannot anticipate custom dimensions.
- Turning Autofill Insert OD off in a shop that consistently uses the same insert types adds a repetitive manual lookup step with no benefit — the autofill value will be correct for every known insert in the database.

Arsenal Plus Plugin

For shops using the **Arsenal Plus plugin**, insert type and OD data recorded on spec sheets contribute to the full drilling record stored against each ball in the bowler's arsenal. Accurate OD entries — whether autofilled or manually entered — ensure the arsenal history reflects the exact insert configuration drilled for each ball. ⚠ *Verify with your Spectre team: confirm whether Arsenal Plus surfaces insert OD data in its ball detail view or drilling history, and whether it uses this data for any suggestions or comparisons.*

☁ Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope — this question has now persisted across 2.3.5 through 2.6.6 and must be resolved before this chapter is published.*

Related Sections

- 2.6.5 — Autofill Bridge: auto standard bridge (1/4" fingertip, 3/8" conventional)
- 2.6.4 — Auto-invert standard lateral pitches when changing from RH bowler to LH
- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.6.7 — Next auto-suggestion setting *(if applicable)*
- 3.x — Bowlers: recording grip style in a bowler profile
- 4.x — Spec Sheet: entering insert type and OD
- 7.x — Arsenal Plus: ball drilling history and insert records

Tip: Insert OD is one of the most brand-specific measurements in the spec sheet — a value that is correct for one insert line may be wrong for another from the same manufacturer. If your shop switches insert brands or adds a new product line, check whether the new inserts are in Spectre Cloud's database before relying on Autofill Insert OD. A quick test sheet before the first fitting with a new insert type is cheap insurance.

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2.6.7 Auto-Repeat Insert Size — mirror size from ring to middle finger

Auto-Repeat Insert Size — mirror size from ring to middle finger

> 2.6.7 auto

I

The **Auto-Repeat Insert Size** setting controls whether Spectre Cloud automatically copies the ring finger insert size to the middle finger insert size field when a spec sheet is being completed. For the majority of bowlers, both finger inserts are the same size — entering the ring finger size first and having the middle finger field populate automatically removes a redundant data entry step and eliminates the risk of the two fields being accidentally left mismatched.

□□ Why Ring and Middle Finger Inserts Are Usually the Same Size

In most bowling fittings, the ring finger and middle finger are close enough in size that a single insert size suits both. The ring finger is typically measured first — it is the controlling finger in the release for most bowlers — and the middle finger is then matched to it. Spectre Cloud's Auto-Repeat Insert Size formalises this common practice as an automatic step rather than a manual one.

- □ Saves a data entry step on the majority of spec sheets where both fingers use the same insert size.
- □ Eliminates accidental mismatches where the fitter enters the ring size and forgets to update the middle finger field.
- □ The mirrored value can be overridden at any time — if the middle finger requires a different size, simply enter it manually and the override is saved.
- □ Not appropriate for bowlers with a significant size difference between their ring and middle fingers — in these cases the auto-repeat value will need to be overridden on every spec sheet.

Note: Auto-Repeat Insert Size mirrors the insert *size* only — it does not copy insert type, brand, or any other insert attribute from one finger to the other. ⚠ *Verify with your Spectre team: confirm exactly which insert-related fields are mirrored by this setting, and whether type and brand are also copied or only the size value.*

□□ Enabling or Disabling Auto-Repeat Insert Size

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 2.6.x settings, consistent with earlier pages in this chapter.*
3. Find the **Auto-Repeat Insert Size** option.
4. Toggle the setting on or off according to your shop's preference. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all new spec sheets. Existing spec sheets are not affected. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

□□ How Auto-Repeat Behaves in Practice

Scenario	Auto-Repeat Off	Auto-Repeat On
Ring and middle finger same size (most bowlers)	Both fields require manual entry — fitter must enter the same value twice	Middle finger field populates automatically when ring finger size is entered

Scenario	Auto-Repeat Off	Auto-Repeat On
Ring and middle finger different sizes	Both fields require manual entry — no risk of incorrect auto-population	Middle finger field auto-populates with ring size — fitter overrides with correct value
Ring finger size not yet entered	Middle finger field blank — manual entry required	Middle finger field remains blank until ring finger size is entered
Ring finger size updated after middle finger override	Middle finger field unchanged	⚠ *Verify with Spectre team: confirm whether updating the ring finger size re-triggers the auto-repeat and overwrites a manual middle finger override, or whether the override is preserved.*

□□ Relationship to Autofill Insert OD (2.6.6)

Auto-Repeat Insert Size and Autofill Insert OD work together on the insert section of the spec sheet. When both are enabled, the workflow for a standard two-fingertip insert fitting is almost fully automatic:

1. Insert type is selected — Autofill Insert OD populates the drill bit size field.
2. Ring finger insert size is entered — Auto-Repeat Insert Size mirrors it to the middle finger field.
3. Fitter reviews both fields, overrides if needed, and proceeds.

- □ Together, 2.6.6 and 2.6.7 reduce insert-related data entry to a single size entry and a review step for the majority of fittings.
- □ Each setting is independently toggleable — shops that want one but not the other can enable selectively.

⚙ When to Consider Turning Auto-Repeat Insert Size Off

- □ **Training new staff** — disabling Auto-Repeat requires trainees to consciously measure and enter both finger sizes independently, reinforcing the habit of checking each finger rather than assuming they match.

- **Shops fitting bowlers with frequent size differences** — if your bowler base frequently presents with ring and middle finger size differences (common in older bowlers or those with arthritis or injury), the override step on every sheet may outweigh the convenience of the autofill.
- **High-precision competitive fitting** — in environments where every measurement is verified independently as a matter of process, manual entry of both fields provides an additional confirmation step.
- Turning Auto-Repeat off in a standard shop doubles the number of insert size entries on every spec sheet for no practical gain — the mirrored value is correct for the overwhelming majority of bowlers and is trivial to override when it is not.

A Note on Bowlers With Different Ring and Middle Finger Sizes

For bowlers who consistently require different insert sizes on each finger, consider recording a note in their bowler profile so that any staff member opening a new spec sheet knows to expect an override. The note serves as a reminder that the auto-repeated value will need to be corrected — preventing it from being accepted without review.

- Use the bowler profile notes or comments field to flag consistent size differences. ⚠ *Verify with your Spectre team: confirm whether Spectre Cloud includes a dedicated notes or comments field on the bowler profile, and whether it is visible when a new spec sheet is opened.*
- The correct middle finger size, once manually entered and saved, will appear in the bowler's spec sheet history — future fittings can reference this history to confirm both sizes rather than relying on the auto-repeat alone.

☁ Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope — this question has persisted from 2.3.5 through 2.6.7 and must be resolved and applied retroactively across all affected pages before this chapter is published.*

Related Sections

- 2.6.6 — Autofill Insert OD: auto drill bit size per insert type and grip
- 2.6.5 — Autofill Bridge: auto standard bridge (1/4" fingertip, 3/8" conventional)
- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.6.8 — Next auto-suggestion setting *(if applicable)*
- 3.x — Bowlers: recording finger measurements in a bowler profile
- 4.x — Spec Sheet: entering insert sizes and OD

Tip: Auto-Repeat Insert Size is one of those settings that is invisible when it is working correctly — the middle finger field is simply already filled in when the fitter gets to it. Its value becomes obvious the first time it is turned off and a fitter submits a spec sheet with the middle finger field blank. Leave it on.

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2.6.8 Auto-calculate ring finger span based on 5/16" rule

Auto-calculate ring finger span based on 5/16" rule

> 2.6.8 auto

The **Auto-Calculate Ring Span** setting controls whether Spectre Cloud automatically derives the **ring finger span** from the middle finger span using the **5/16" rule**. This long-established fitting convention holds that the ring finger span should be 5/16" shorter than the middle finger span for a properly fitted fingertip or conventional grip. When enabled, entering the middle finger span is all that is required — the ring finger span populates automatically, removing a calculation step and ensuring the two spans maintain the correct relationship.

□□ What Is the 5/16" Rule?

The 5/16" rule is an IBPSIA-recognised fitting convention that defines the standard offset between the middle and ring finger spans. It reflects the natural length difference between the two fingers — the ring finger is typically shorter than the middle finger by an amount that corresponds to a 5/16" span reduction when measured in the context of a bowling ball grip.

- □ Applying the 5/16" rule produces a grip where both fingers are loaded evenly at the point of release, reducing the tendency for one finger to carry more of the ball's weight than the other.

- The rule applies to both fingertip and conventional grips, though the absolute span values differ between the two styles.
- It is one of the most consistently applied conventions in pro shop fitting — the majority of bowlers will be correctly served by the standard offset.
- Bowlers with an atypical length difference between their ring and middle fingers — due to anatomy, injury, or amputation — may require a different offset. The auto-calculated value should always be physically verified before drilling.

Note: The 5/16" rule produces a starting point, not a guaranteed correct span. Always confirm the ring finger span against the bowler's actual hand before committing to a drilling. A physical fit check — confirming the finger seats correctly at the intended depth — takes precedence over the calculated value in all cases.

How the Calculation Works

The auto-calculation is straightforward: Spectre Cloud subtracts 5/16" from the entered middle finger span and populates the ring finger span field with the result.

Middle Finger Span	Auto-Calculated Ring Finger Span	Offset Applied
`3 3/4"`	`3 7/16"`	5/16" subtracted
`3 7/8"`	`3 9/16"`	5/16" subtracted
`4"`	`3 11/16"`	5/16" subtracted
`4 1/8"`	`3 13/16"`	5/16" subtracted
`4 1/4"`	`3 15/16"`	5/16" subtracted

Tip: The calculated ring span values above assume fractional display. If your account is set to decimal display (see 2.3.3), the same values will appear in decimal format — the underlying calculation is identical. ⚠ *Verify with your Spectre team: confirm whether the auto-calculated ring span respects the Bit Size vs. Decimal display setting from 2.3.3, and whether fractional results are rounded to the nearest measurable increment.*

Enabling or Disabling Auto-Calculate Ring Span

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 2.6.x settings, consistent with earlier pages in this chapter.*

3. Find the **Auto-Calculate Ring Span** option.
4. Toggle the setting on or off according to your shop's preference. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all new spec sheets. Existing spec sheets are not affected. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

□□ Overriding the Auto-Calculated Value

The auto-calculated ring span is a suggestion, not a lock. It can be overridden manually on any individual spec sheet without affecting the account setting or the bowler's history of auto-calculated values.

- □ Simply type or select a different ring span value — the override is saved to the spec sheet as entered.
- □ The overridden value is stored in the bowler's spec sheet history and is visible in future sessions for reference.
- □ Consistent overrides for the same bowler are a signal that their finger length difference is not standard — consider noting this in their bowler profile so future fittings start with the correct expectation. ⚠ *Verify with your Spectre team: confirm whether Spectre Cloud tracks or flags consistent overrides of auto-calculated values, or whether this pattern is only visible by manually reviewing the bowler's spec sheet history.*

□□ Relationship to Span Type Settings

The 5/16" rule and the auto-calculation it drives apply to the span measurement regardless of which span type — Full Span (F), Edge (E), or Center (C) — is selected on the spec sheet. The offset is consistent across span types because it reflects the physical finger length difference, not the measurement convention used to record the span.

- □ Auto-Calculate Ring Span fires for **all three span types** when enabled. ⚠ *Verify with your Spectre team: confirm whether the auto-calculation applies equally to Full Span, Edge, and Center span types, or whether it is limited to specific types.*
- □ The calculated value is expressed in whichever unit and format the spec sheet is using — fractional or decimal, consistent with the display settings in chapter 2.3.

⚙ When to Consider Turning Auto-Calculate Ring Span Off

- **Training new staff** — disabling this setting requires trainees to apply the 5/16" rule manually, reinforcing the underlying fitting logic and ensuring they understand why the offset exists rather than simply accepting an auto-populated value.
- **Shops with a different standard offset** — some fitters use a slightly different ring-to-middle offset based on their own fitting philosophy or a specific bowler population. If your shop's standard is not 5/16", this setting will produce an incorrect suggestion on every sheet.
- **Bowlers with known non-standard offsets** — for a bowler who consistently requires a different ring-to-middle offset, turning off the auto-calculation prevents an incorrect value from appearing on every new sheet, reducing the risk of it being accepted without review.
- Turning this off in a standard-practice shop adds a manual calculation step to every fitting — a step that is simple but repetitive, and one where transcription errors occasionally occur under shop pressure.

☁ Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope — this question has persisted from 2.3.5 through 2.6.8 and must be resolved before this chapter is published. It is the single most overdue verification item across all pages drafted to date.*

Related Sections

- 2.6.7 — Auto-Repeat Insert Size: mirror size from ring to middle finger
- 2.6.6 — Autofill Insert OD: auto drill bit size per insert type and grip
- 2.6.5 — Autofill Bridge: auto standard bridge (1/4" fingertip, 3/8" conventional)
- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.6.9 — Next auto-suggestion setting *(if applicable)*
- 2.3.2 — Span type configuration: Full Span, Edge, Center
- 4.x — Spec Sheet: entering span measurements
- 3.x — Bowlers: recording finger measurements in a bowler profile

Tip: The 5/16" rule has been a pro shop standard for decades because it works for the overwhelming majority of bowlers. Auto-Calculate Ring Span turns that standard into a zero-effort step — the ring span is simply there when the fitter reaches that field. For the small number of

bowlers where the standard offset doesn't apply, the override takes seconds. The math is always done; the question is only whether Spectre Cloud does it or the fitter does.

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2.6.9 Autofill Cut to Cut measurement based on insert type/size

Autofill Cut to Cut measurement based on insert type/size

> 2.6.9 auto

The **Autofill Cut to Cut** setting controls whether Spectre Cloud automatically calculates and populates the **Cut to Cut (C)** measurement based on the bowler's recorded insert type and insert size. The Cut to Cut measurement defines the distance between the near edges of the finger holes — a value that is directly influenced by insert dimensions. When enabled, entering the insert details is sufficient for Spectre Cloud to derive this measurement automatically, removing a manual calculation step that varies with every insert combination.

□□ What Is the Cut to Cut Measurement?

The **Cut to Cut** measurement is the distance between the nearest edges of the middle and ring finger holes, measured across the bridge. It is one of three span reference types supported in Spectre Cloud alongside Full Span (F) and Center (C), and it is particularly relevant when inserts are

in use — because the physical edge of the drilled hole and the edge of the seated insert are related but not identical dimensions.

- Cut to Cut is a precise reference for the physical gap between holes as drilled — useful for verifying drilling accuracy and for communicating specs to a drill press operator.
- When inserts are used, the effective finger position is influenced by the insert's inner diameter — the Cut to Cut measurement anchors the span calculation to the drilled hole geometry rather than the insert's grip surface.
- Spectre Cloud can derive Cut to Cut automatically because the insert type and size together define the hole edge positions relative to the grip center.
- Cut to Cut is a derived measurement — if the underlying insert type or size is entered incorrectly, the auto-calculated Cut to Cut will also be incorrect. Always verify insert details before relying on the autofill result.

Note: ⚠ *Verify with your Spectre team: confirm the exact formula Spectre Cloud uses to derive Cut to Cut from insert type and size, and whether any additional spec sheet values — such as bridge width or hole diameter — are also factored into the calculation.*

How Insert Type and Size Drive the Cut to Cut Value

Each insert has a defined Outside Diameter (OD) — the dimension of the hole it requires. Combined with the bridge measurement and the bowler's span, this gives Spectre Cloud everything it needs to calculate the Cut to Cut distance.

Input	Role in Cut to Cut Calculation
Insert OD	Defines the diameter of each finger hole — determines where the hole edges sit relative to the hole centers
Bridge	The gap between hole edges — directly part of the Cut to Cut geometry
Span (middle finger)	The reference distance from which hole center positions are derived

Note: ⚠ *Verify with your Spectre team: confirm the complete input set used for the Cut to Cut autofill calculation — specifically whether all three inputs above are required, and whether the Autofill Cut to Cut setting is dependent on Autofill Insert OD (2.6.6) and Autofill Bridge (2.6.5) also being enabled, or whether it can operate independently using manually entered values for those fields.*

□□ Enabling or Disabling Autofill Cut to Cut

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 2.6.x settings, consistent with earlier pages in this chapter.*
3. Find the **Autofill Cut to Cut** option.
4. Toggle the setting on or off according to your shop's preference. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all new spec sheets. Existing spec sheets are not affected. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

□□ Relationship to Other Auto-Suggestion Settings

Autofill Cut to Cut sits at the end of a chain of related auto-suggestion settings in chapter 2.6. Each upstream autofill contributes a value that the Cut to Cut calculation depends on:

Setting	Contributes To Cut to Cut Via
2.6.6 — Autofill Insert OD	Provides the hole diameter used to locate hole edges
2.6.5 — Autofill Bridge	Provides the edge-to-edge gap between holes
2.6.8 — Auto-Calculate Ring Span	Provides the ring finger span used in hole center positioning
2.6.9 — Autofill Cut to Cut	Assembles the upstream values into a final Cut to Cut figure

When all four settings are enabled, the insert section and span section of the spec sheet require minimal manual input — the fitter enters the insert type, middle finger span, and grip style, and Spectre Cloud derives the remaining values in sequence.

- □ Autofill Cut to Cut can still operate if upstream values were entered manually rather than autofilled — it reads the field values, not their source.
- □ If any upstream value is missing or blank, the Cut to Cut field will not autofill — Spectre Cloud will not calculate from incomplete data. ⚠ *Verify with your Spectre team: confirm whether a warning or indicator is shown when the Cut to Cut autofill cannot fire due to a*

missing upstream value.

□□ Overriding the Auto-Calculated Value

As with all autofill settings in chapter 2.6, the Cut to Cut value can be overridden manually on any individual spec sheet without affecting the account setting or the bowler's history.

- □ Enter a different value directly — the override is saved to the spec sheet as entered.
- □ Overrides are stored in the bowler's spec sheet history and visible in future sessions.
- □ If an upstream value — such as insert OD or bridge — is changed after Cut to Cut has been autofilled, confirm whether the Cut to Cut field updates automatically or retains the previously calculated value. ⚠ *Verify with your Spectre team: confirm whether changing an upstream value on an in-progress spec sheet re-triggers the Cut to Cut autofill, consistent with the live-update questions raised in 2.6.5 and 2.6.6.*

⚙ When to Consider Turning Autofill Cut to Cut Off

- □ **Training new staff** — disabling this setting requires trainees to calculate Cut to Cut manually from insert dimensions and span values, building genuine understanding of the geometric relationship between these measurements.
- □ **Shops that do not use inserts** — if your shop primarily drills bare holes, the insert-driven Cut to Cut calculation is not relevant and the field should be entered directly from measurement.
- □ **Verification workflows** — some shops calculate Cut to Cut independently as a cross-check against the spec sheet before drilling. Turning off the autofill ensures the fitter performs this calculation themselves rather than accepting a system-generated value.
- □ Turning Autofill Cut to Cut off in a standard insert-using shop adds a manual geometric calculation to every fitting — one that is entirely deterministic and has no fitting judgment component. This is precisely the kind of task the autofill system is designed to eliminate.

☁ Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope — this question has now persisted from 2.3.5 through 2.6.9 across more than twenty pages. It must be resolved and documented before any of the affected pages in chapters 2.3 through 2.6 are published.*

Related Sections

- 2.6.8 — Auto-Calculate Ring Span: based on 5/16" rule
- 2.6.6 — Autofill Insert OD: auto drill bit size per insert type and grip
- 2.6.5 — Autofill Bridge: auto standard bridge (1/4" fingertip, 3/8" conventional)
- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.6.10 — Next auto-suggestion setting *(if applicable)*
- 2.3.2 — Span type configuration: Full Span, Edge, Center
- 4.x — Spec Sheet: entering span and Cut to Cut measurements
- 4.x — Spec Sheet: working with inserts

Tip: Autofill Cut to Cut is the downstream beneficiary of the auto-suggestion chain — it is most powerful when 2.6.5, 2.6.6, and 2.6.8 are also enabled. If you are enabling auto-suggestions selectively, enabling all four of these settings together gives you the greatest reduction in manual calculation steps for insert-based fittings with the lowest risk of any individual value being incorrectly derived.

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2.6.10 Auto-Suggest Layouts — AI-based layout suggestion from bowler's profile

Auto-Suggest Layouts — AI-based layout suggestion from bowler's profile

> `2.6.10` auto

The **Auto-Suggest Layouts** setting controls whether Spectre Cloud uses an **AI-based suggestion engine** to recommend a ball layout when a new spec sheet is created. Drawing on the bowler's profile — including their PAP, track, axis tilt, axis rotation, rev rate, ball speed, and layout history — the engine proposes a starting layout tailored to the individual bowler rather than a generic chart-based default. This is the most sophisticated auto-suggestion in chapter 2.6, and for shops serving competitive or performance-oriented bowlers it can meaningfully accelerate the fitting conversation.

Note: Auto-Suggest Layouts is distinct from the **Arsenal Plus** suggested layouts feature, which operates at the arsenal level across a bowler's full ball collection. Auto-Suggest Layouts works at the individual spec sheet level, proposing a starting layout for the ball currently being drilled. ⚠ *Verify with your Spectre team: confirm the precise distinction between Auto-Suggest Layouts (2.6.10) and Arsenal Plus suggested layouts, and whether both can be active simultaneously*

without conflict.

□□ How the AI Suggestion Engine Works

When a new spec sheet is opened with Auto-Suggest Layouts enabled, Spectre Cloud's suggestion engine analyses the bowler's profile data and drilling history to generate a layout recommendation. The suggestion takes into account:

- □ **PAP location** — the foundational input for any layout system; the AI uses this to anchor the layout geometry.
- □ **Axis tilt and rotation** — influences how the ball transitions through the midlane and into the backend.
- □ **Rev rate and ball speed** — higher rev rates and lower speeds generally call for different layout strategies than lower rev rates and higher speeds.
- □ **Track** — high, medium, and low track bowlers respond differently to the same layout; the AI accounts for this in its recommendation.
- □ **Layout history** — past layouts and any associated performance notes inform the suggestion, steering the engine toward approaches that have worked for this bowler before.
- □ **Ball characteristics** — where ball RG and differential are recorded on the spec sheet, the engine factors in how the ball's core dynamics interact with the proposed layout. ⚠ *Verify with your Spectre team: confirm the complete input set the AI engine uses, and whether ball RG and differential are required inputs or optional enhancements.*

Note: The AI suggestion is a starting point grounded in the bowler's data — it is not a substitute for the fitter's judgment. Lane conditions, bowler goals, and real-time feedback from ball testing all influence the final layout decision in ways the engine cannot fully anticipate. Always evaluate the suggestion in the context of the full fitting conversation before drilling.

□□ What the Suggestion Looks Like in Practice

When the engine generates a layout suggestion, it is presented in the layout section of the spec sheet using whichever layout type is set as the account default (see 2.5.1). For a Dual Angle default, the suggestion will appear as a set of drilling angle, pin distance, and VAL angle values. For a VLS default, it will appear as pin distance and VAL angle values consistent with the VLS system.

	Layout Type: Dual Angle	Layout Type: VLS	Layout Type: None
Suggestion format	Drilling angle, pin distance, VAL angle	Pin distance, VAL angle, MB position	Free-form text — AI describes recommendation in plain language
Fitter action	Review three values, accept or adjust	Review chart-compatible values, accept or adjust	Read suggestion, transcribe to manual entry field

Note: ⚠ *Verify with your Spectre team: confirm how Auto-Suggest Layouts presents its recommendation when the layout type is set to None, and whether the AI engine supports all four layout types (VLS, 2LS, Dual Angle, None) or only structured types.*

□□ Enabling or Disabling Auto-Suggest Layouts

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 2.6.x settings, consistent with earlier pages in this chapter.*
3. Find the **Auto-Suggest Layouts** option.
4. Toggle the setting on or off according to your shop's preference. ⚠ *Verify with your Spectre team: confirm whether this is a toggle, checkbox, or other control.*
5. The change takes effect immediately for all new spec sheets. Existing spec sheets are not affected. ⚠ *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*

□□ Data Requirements for a Quality Suggestion

The quality of the AI suggestion scales directly with the completeness of the bowler's profile. A bowler with a full profile — PAP, tilt, rotation, rev rate, speed, and several drilled balls on record — will receive a more precise and relevant suggestion than a bowler with only a PAP on file.

Profile Completeness	Suggestion Quality	Notes
Full profile + layout history	High — tailored to the bowler's specific dynamics and history	Best case; builds on what has worked before
Full profile, no layout history	Good — based on bowler dynamics alone	Improves with each ball added to history

Profile Completeness	Suggestion Quality	Notes
PAP only	Basic — layout anchored to PAP with limited personalisation	Usable starting point; supplement with fitter judgment
No profile data	None — suggestion engine cannot fire without at least a PAP	Field remains blank; manual layout entry required

Tip: For new bowlers, complete as much of the profile as possible during the intake fitting — even a first session can capture PAP, tilt, rotation, rev rate, and ball speed. The investment in a thorough intake pays dividends on every subsequent fitting through better layout suggestions.

□□ Relationship to Arsenal Plus

Auto-Suggest Layouts and the **Arsenal Plus plugin** address different but complementary aspects of layout intelligence. Auto-Suggest Layouts proposes a layout for the individual ball being drilled; Arsenal Plus provides suggested layouts and conversion tools in the context of the bowler's full arsenal — helping ensure new balls complement rather than duplicate existing equipment.

- □ Both can be active simultaneously for the most complete layout intelligence. ⚠ *Verify with your Spectre team: confirm whether Auto-Suggest Layouts and Arsenal Plus suggested layouts present their recommendations in the same UI location or separately, and how conflicts or differing suggestions are surfaced to the fitter.*
- □ Arsenal Plus is a paid plugin — Auto-Suggest Layouts is available to all Spectre Cloud accounts as part of the core auto-suggestion suite.
- □ For shops without Arsenal Plus, Auto-Suggest Layouts provides meaningful layout intelligence at the spec sheet level without requiring the full plugin.

⚙ When to Consider Turning Auto-Suggest Layouts Off

- □ **Training new staff** — disabling Auto-Suggest Layouts requires trainees to derive layout recommendations independently from the bowler's profile data, building genuine fitting knowledge rather than evaluating system suggestions.
- □ **Shops with a specific layout philosophy** — if your shop applies a consistent house layout approach or works exclusively from a coach's specifications, AI-generated suggestions may create noise in the fitting workflow.
- □ **Bowlers with external coaching relationships** — competitive bowlers whose layouts are prescribed by a coach or manufacturer's rep may not benefit from an AI suggestion that is independent of that relationship.

- Turning Auto-Suggest Layouts off for the general bowler population removes a meaningful time-saving and quality-raising tool — even when the suggestion is not accepted verbatim, it provides a useful starting point for the layout conversation.

☁ Scope of This Setting

This setting is stored at the account level and applies to all new spec sheets across all devices. ⚠ *Verify with your Spectre team: confirm per-user vs. per-account/shop scope — this question has persisted from 2.3.5 through 2.6.10 across more than twenty pages. It must be resolved, documented, and applied retroactively across all affected pages before chapters 2.3 through 2.6 are published. This is a blocking item.*

Related Sections

- 2.6.9 — Autofill Cut to Cut: based on insert type/size
- 2.6.1 — Overview: why leaving all auto-suggestions on saves time
- 2.5.1 — Default layout type: VLS, 2LS, Dual Angle, None
- 2.5.1.3 — PAL / Dual Angle system
- 2.6.11 — Next auto-suggestion setting *(if applicable)*
- 3.x — Bowlers: completing a full bowler profile
- 4.x — Spec Sheet: reviewing and accepting a layout suggestion
- 7.x — Arsenal Plus: suggested layouts and layout conversion

Tip: Auto-Suggest Layouts gets better the more you use Spectre Cloud. Every spec sheet saved — whether the suggested layout was accepted, adjusted, or overridden — contributes to the bowler's history that informs the next suggestion. The engine is not static; it reflects the accumulated record of what has been drilled for each bowler. The sooner it is turned on, the sooner it starts building that record.

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