

4.1.1 Understanding acronyms: F (Full Span), C (Cut to Cut), O (Oval)...

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4.1.1 [glossary](#)

Spectre Cloud uses a set of standard acronyms throughout spec sheets, settings, and the oval calculator to refer to span types, measurement conventions, and drilling operations. Understanding what each acronym means — and when each applies — is essential for reading and creating spec sheets accurately. This page is a reference for the core acronyms used across the platform, with plain-language explanations of each.

Span Type Acronyms

The three most frequently encountered acronyms in Spectre Cloud are the span type identifiers. These appear on spec sheets, in settings, and throughout the oval calculator. Every spec sheet is associated with one of these three span types — the choice determines how distances between finger and thumb holes are measured and recorded.

F — Full Span

The **Full Span (F)** measurement is taken from the **tip of the middle finger** to the near edge of the thumb hole, with the fingers inserted to the correct depth for the bowler's grip style. It represents the total distance the thumb must travel to reach its hole from the fully inserted finger position.

- ☐ The most widely used span measurement convention in pro shop fitting.
- ☐ Intuitive for most bowlers to understand — it describes the actual reach from fingertip to thumb.
- ☐ IBPSIA-recognised standard; used as the reference measurement in most published fitting charts.
- ☐ Best for: general fitting across all skill levels; shops where most bowlers use fingertip or conventional grips.

C — Cut to Cut

The **Cut to Cut (C)** measurement is taken from the **near edge of the finger holes** to the near edge of the thumb hole — edge to edge rather than fingertip to edge. It describes the actual distance between the drilled openings of the finger and thumb holes as they sit on the ball.

- ☐ More directly related to the physical geometry of the drilled ball than Full Span.
- ☐ Particularly useful when inserts are in use — the hole edge position is directly relevant to insert seating.
- ☐ Preferred by some fitters who work primarily from physical hole measurements rather than hand-based fitting.
- ☐ Best for: insert-based fittings; shops that cross-reference measurements against drilled hole geometry.
- ☐ Less intuitive for bowlers to visualise than Full Span — the measurement is taken from the ball, not the hand.

O — Oval

The **Oval (O)** designation indicates that a hole has been drilled as an **oval shape** rather than a round hole. An oval hole extends the round cut in one or both directions to accommodate the bowler's finger or thumb geometry — particularly useful for bowlers who need more room for natural finger movement through the release.

- ☐ Oval holes are most commonly applied to the thumb — the thumb's range of motion during the release often benefits from an oval rather than a perfectly round hole.
- ☐ The oval's dimensions are defined by the starting (round) bit size and the additional cut in the vertical and/or horizontal direction — see the Oval Calculator section (Book 05) for

full detail.

- □ In Spectre Cloud, a spec sheet field or measurement tagged with O indicates the oval calculator has been applied and an oval dimension is recorded.
- □ Not all holes require an oval — round holes are standard for most finger positions and for thumbs with sufficient clearance.

□ F, C, and O at a Glance

Acronym	Full Name	Measured From	Measured To	Most Common Use
F	Full Span	Tip of middle finger (inserted)	Near edge of thumb hole	General fitting; IBPSIA-standard charts
C	Cut to Cut	Near edge of finger holes	Near edge of thumb hole	Insert-based fitting; hole geometry reference
O	Oval	Round bit starting point	Extended oval cut direction(s)	Thumb oval drilling; finger oval where required


□ Additional Acronyms Used in Spectre Cloud

Beyond the three primary span type acronyms, Spectre Cloud uses a number of additional shorthand terms throughout its interface. The following reference covers the most commonly encountered.

Acronym	Full Name	Where Used	What It Refers To
PAP	Positive Axis Point	Bowler profile; layout fields	The point on the ball's surface at the end of the bowler's initial axis of rotation at release — the geometric anchor for all structured layout systems
VAL	Vertical Axis Line	Layout fields (VLS, Dual Angle)	The vertical line running through the bowler's PAP — used as a reference for pin and mass bias placement in VLS and Dual Angle layouts






Acronym	Full Name	Where Used	What It Refers To
MB	Mass Bias	Layout fields	The heaviest point of the ball's core — its placement relative to the grip center affects the ball's flare potential and backend motion
VLS	Versatile Layout System	Layout type selector; spec sheets	Storm Bowling's chart-based layout system for traditional thumb bowlers — see 2.5.1.1
2LS	Two-Layout System	Layout type selector; spec sheets	Storm Bowling's layout system designed for two-handed bowlers — see 2.5.1.2
PAL	Performance Axis Layout	Layout type selector; spec sheets	Three-input layout system (drilling angle, pin distance, VAL angle) — referred to as Dual Angle in Spectre Cloud's UI — see 2.5.1.3
CLT	Center Line Transformation	Bowler profile; Auto-CLT setting	A fitting measurement that defines how a bowler's finger centerline relates to the ball's grip center — used to derive lateral finger pitch — see 2.6.3
OD	Outside Diameter	Insert fields; spec sheets	The outer diameter of a finger insert — the drill bit must match this dimension for the insert to seat correctly — see 2.6.6
RG	Radius of Gyration	Arsenal Plus; ball detail fields	A measure of how the ball's mass is distributed relative to its axis — lower RG = earlier roll, higher RG = longer skid
diff / differential	Differential of RG	Arsenal Plus; ball detail fields	The difference between a ball's highest and lowest RG values — higher differential = more flare potential and stronger backend reaction
V	Vertical	Oval calculator; milling settings	The vertical axis of oval cut movement — see 2.3.5 and 2.3.6
H	Horizontal	Oval calculator; milling settings	The horizontal axis of oval cut movement — see 2.3.5 and 2.3.6

Acronym	Full Name	Where Used	What It Refers To
RPM	Revolutions Per Minute	Bowler profile (rev rate field)	The unit used to record a bowler's rev rate — how many times the ball rotates on its axis per minute during lane travel
RH / LH	Right-Handed / Left-Handed	Bowler profile; pitch settings; Auto-Invert	Shorthand for the bowler's dominant hand — affects pitch sign conventions, layout orientation, and Auto-Invert behaviour

Note:  Verify with your Spectre team: confirm the complete list of acronyms used in Spectre Cloud's UI and add any that are missing from this reference table. Also confirm whether any acronyms listed above are displayed differently in the app — for example, whether the app uses "Cut to Cut" or "CTC" rather than "C" in certain contexts.

Acronyms on Spec Sheets — What You Will See

When reading a completed spec sheet in Spectre Cloud, acronyms appear as field labels, section headers, and value indicators. Knowing what each stands for prevents misreading a spec sheet under pressure — particularly when a sheet is being read at the drill press rather than at a desk.

-  The span type (**F**, **C**, or **O**) appears as a label alongside the span measurement value — a value labelled **F 3 7/8"** means a Full Span of 3 7/8".
-  Layout acronyms (**VLS**, **2LS**, **PAL**) appear as the layout type header above the layout input fields on the spec sheet.
-  **PAP**, **VAL**, and **MB** appear as field labels within the layout section.
-  **V** and **H** appear as column headers in the oval calculator output section.
-  **OD** appears as a field label in the insert section alongside the drill bit size.

Related Sections

- 4.1.2 — Spec sheet overview: sections and layout (*if applicable*)
- 2.3.2 — Span type configuration: Full Span, Edge, Center
- 2.5.1 — Default layout type: VLS, 2LS, Dual Angle, None
- 2.6.3 — Auto-CLT: lateral pitch of fingers based on CLT chart
- 2.6.6 — Autofill Insert OD: auto drill bit size per insert type and grip
- 5.x — Oval Calculator: overview
- 9.x — Tips and Troubleshooting: glossary of bowling fitting terms

Tip: Print this page and keep a copy at the drill press during onboarding of new staff. Acronym familiarity is one of the first barriers a new team member faces when reading a spec sheet under time pressure — having a quick reference to hand removes that barrier in the first few sessions and builds confidence faster than repeated explanation alone.

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