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

> `2.6.3` auto

Center Line Tilt (CLT) is the reference chart Spectre uses to set the **lateral pitch** of the middle and ring fingers when a bowler's fingers naturally angle away from the grip's center line. This page explains what CLT is, how to read the chart, and how Spectre's **Auto-CLT** setting applies it for you.

□□ What Center Line Tilt Is

Most hands don't hold the ball with the middle and ring fingers running perfectly parallel to the grip's center line. Instead, the fingers *fan out* from the center line at an angle. **Center Line Tilt** is that angle — measured in degrees — and it determines how much lateral (left/right) pitch each finger needs so the holes follow the natural line of the fingers.

- □ A **larger tilt angle** means the fingers splay more from the center line.
- □ The **middle finger** and **ring finger** each get their own lateral pitch, in opposite directions, so the grip matches the hand.
- □ Getting CLT right improves comfort, release consistency, and reduces grip fatigue.

□□ Reading Diagram #1 (The CLT Chart)

The CLT chart maps five tilt lines — **A through E** — to their tilt angle and the resulting lateral pitch for each finger. As the angle increases from `8°` to `40°`, the middle finger and ring finger pitches shift in opposite directions.

For Right-Hand Bowlers

Line	Tilt Angle	Middle Finger	Ring Finger
A	8°	3/8" Left	1/2" Right
B	16°	5/16" Left	9/16" Right
C	24°	1/4" Left	5/8" Right
D	32°	3/16" Left	11/16" Right
E	40°	1/8" Left	3/4" Right

For Left-Hand Bowlers

The left-hand chart mirrors the right-hand values — the directions flip, and the ring/middle columns swap.

Line	Tilt Angle	Ring Finger	Middle Finger
A	8°	1/2" Left	3/8" Right
B	16°	9/16" Left	5/16" Right
C	24°	5/8" Left	1/4" Right
D	32°	11/16" Left	3/16" Right
E	40°	3/4" Left	1/8" Right

Tip: If your Spectre **Flip Lateral Pitches RH/LH** setting is ON, switching a bowler's hand automatically inverts these lateral pitches for you — no need to look up the opposite chart by hand.

How Spectre Applies CLT — Auto-CLT

Rather than looking these values up manually, Spectre's **Auto-CLT** setting reads the tilt angle you enter for a bowler and fills in the suggested lateral pitch for each finger straight from this chart.

- **Auto-CLT ON** — Spectre suggests the middle- and ring-finger lateral pitches automatically from the CLT chart, saving lookup time.
- **Auto-CLT OFF** — no lateral pitch is suggested; you enter each finger's pitch manually from the chart above.

Worked Example — 24° Tilt (Line C)

A right-hand bowler with a `24°` center line tilt falls on **Line C**. From the chart, Spectre suggests:

- **Middle finger:** 1/4" Left
- **Ring finger:** 5/8" Right

With Auto-CLT ON, those two values are filled in automatically the moment the tilt is set.

Related Sections

- Settings → Auto-Suggestions → Auto-CLT (section 2.6.3)
- Settings → Auto-Suggestions → Pitch Suggestion
- Settings → Auto-Suggestions → Flip Lateral Pitches RH/LH

Note: CLT sets *lateral* finger pitch only. Forward/reverse pitch and span are handled separately by the Pitch Suggestion and span rules.

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