

4.3.2 The four span types: F, C, O, H

4.3.2 concept

Spectre Cloud supports **four span types** — **Full Span (F)**, **Cut to Cut (C)**, **Outer to Cut (O)**, and **Hole to Hole (H)**. All four measure the distance between the finger holes and the thumb hole, but they differ in where the measurement begins and ends and whether the inserts are included. This page defines each; for entering them on the sheet, see **4.3.1**.

Full Span (F)

The **complete measured span** — everything included, inserts and all. Also called the complete span.

-  The most common convention; IBPSIA fitting charts generally assume Full Span.
-  Describes the bowler's actual reach with their grips installed.
-  Required input for the Cut to Cut auto-suggestion (needed on both fingers).

Cut to Cut (C)

Full Span minus the thickness of the insert — the span measured to the actual drilled cut, before the inserts are accounted for. Useful when drilling **thumb-first**, so you don't subtract the grip thickness by hand.

-  The one span type with an auto-suggestion — **Autofill Cut to Cut (2.6.9)**.
-  Not the same as the PBA truck's "Cut-to-Cut" — that is Hole to Hole (H), below.

Outer to Cut (O)

For **interchangeable thumbs** — measured from the inside of the female portion of the interchangeable to the cut of the finger's outer-diameter hole.

- ☐ Lets a bowler with an interchangeable thumb use a new ball by locking in their own **male inner sleeve** — no new thumb to drill.
- ☐ "O" is **Outer to Cut, not Oval** — an oval is a hole shape (Book 05), a separate concept.

☐ Hole to Hole (H)

Biggest hole to biggest hole — for example, a thumb to a finger. A purely physical, edge-to-edge measurement of the largest openings.

- ☐ This is what the **PBA services truck** calls "Cut-to-Cut."

☐ The Four Span Types

	Full Span (F)	Cut to Cut (C)	Outer to Cut (O)	Hole to Hole (H)
What it measures	Complete span, inserts and all	Full Span minus insert thickness	Inside of the female interchangeable to the cut of the finger OD hole	Biggest hole to biggest hole (e.g. 1½" to 31/32")
Inserts included?	Yes	No	Interchangeable sleeve	N/A — hole edge to hole edge
Primary use	General fitting; the default reference	Thumb-first drilling	Interchangeable thumbs	Quick physical reference; PBA-truck workflows
Auto-suggestion	—	Yes (2.6.9)	—	—

Related Sections

- 4.3.1 — Entering span measurements (F, C, O, H)
- 4.3.3 — Ring finger 5/16" rule
- 4.1.1 — Acronyms: F, C, O, H
- 2.6.9 — Autofill Cut to Cut
- 05 — Oval Calculator (oval hole shape — distinct from span type O)

Tip: Full Span is the lowest-friction default — it's the complete measurement most fitters work in and the input the Cut to Cut auto-fill depends on. Reach for Cut to Cut when drilling thumb-first, Outer to Cut for interchangeable thumbs, and Hole to Hole when you want the biggest-hole-to-biggest-hole reference the PBA truck calls "Cut-to-Cut."

