

# SYMMETRICAL DRILLING LAYOUTS

---

**Brunswick**

**COLUMBIA**  
**500**

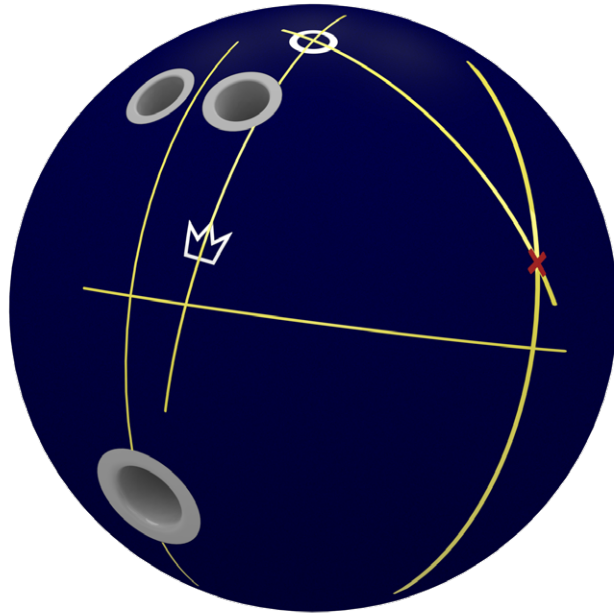
**DVB**  
*Quality*

**e**  
**EBONITE**

**HAMMER**

**TRACK**  
**BOWLING**

# SYMMETRICAL DRILLING LAYOUTS



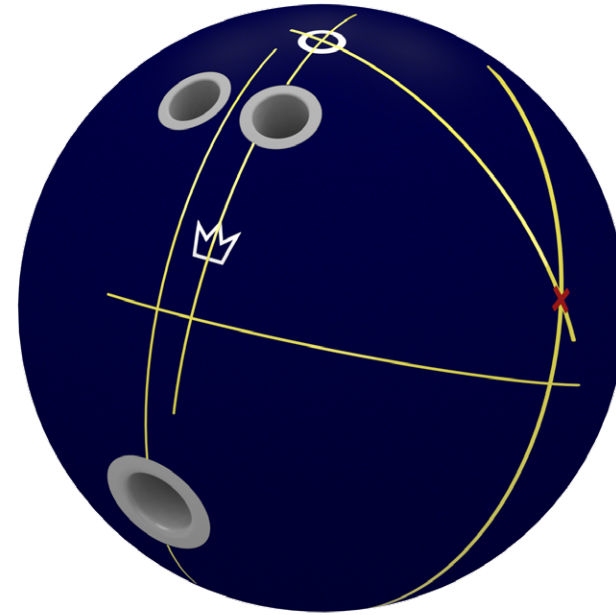
## 1 STRONG

### *Reaction Characteristics*

- Earliest revving
- Smooth response to friction
- Strong total hook with continuous backend

### *Recommended Layout Numbers*

- 4" pin/DOT to PAP
- 35° VAL Angle



## 2 BENCHMARK

### *Reaction Characteristics*

- Earlier revving
- Medium response to friction
- All-purpose motion with continuous backend

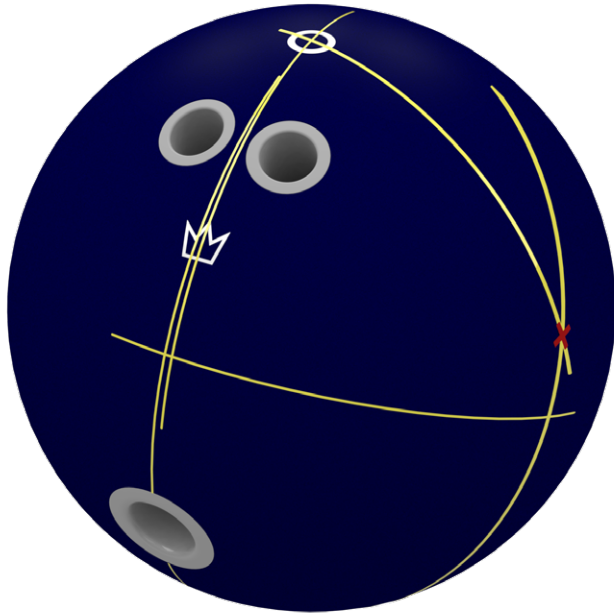
### *Recommended Layout Numbers*

- 4.5" pin/DOT to PAP
- 35° VAL Angle

*PAP used for these layouts is 5" over and 1" up.*

*These images are for reference only. The layout on your drilled ball may look slightly different.*

# SYMMETRICAL DRILLING LAYOUTS



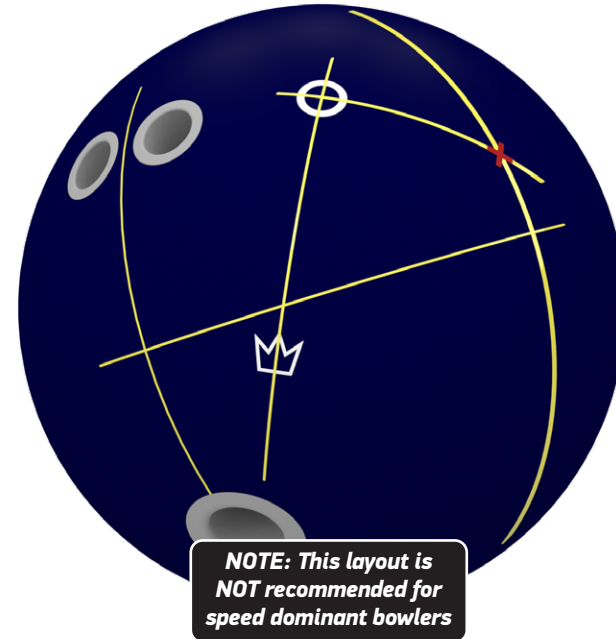
## 3 SKID-FLIP

### Reaction Characteristics

- Later revving
- Sharp response to friction
- Medium total hook with angular backend

### Recommended Layout Numbers

- 5" pin/DOT to PAP
- 30° VAL Angle



**NOTE: This layout is NOT recommended for speed dominant bowlers**

## 4 CONTROL

### Reaction Characteristics

- Latest revving
- Smoothest response to friction
- Less total hook with arcing backend

### Recommended Layout Numbers

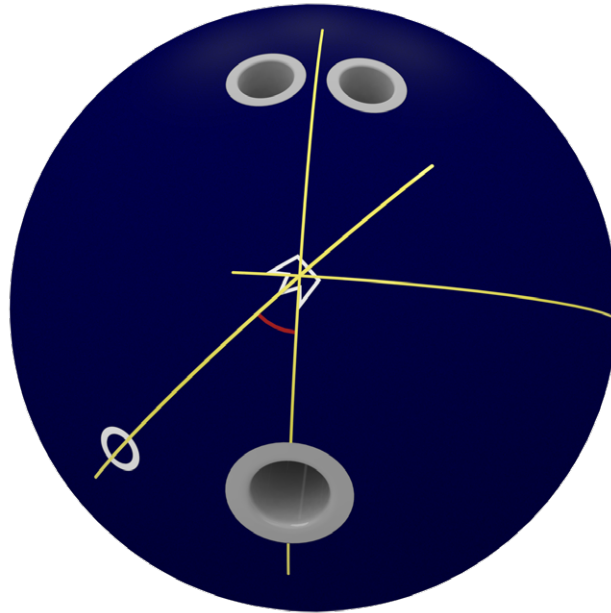
- 2.25" pin/DOT to PAP
- 50° VAL Angle

*PAP used for these layouts is 5" over and 1" up.*

*These images are for reference only. The layout on your drilled ball may look slightly different.*

# SYMMETRICAL DRILLING LAYOUTS

---



## **5** FULL ROLLER

### *Reaction Characteristics*

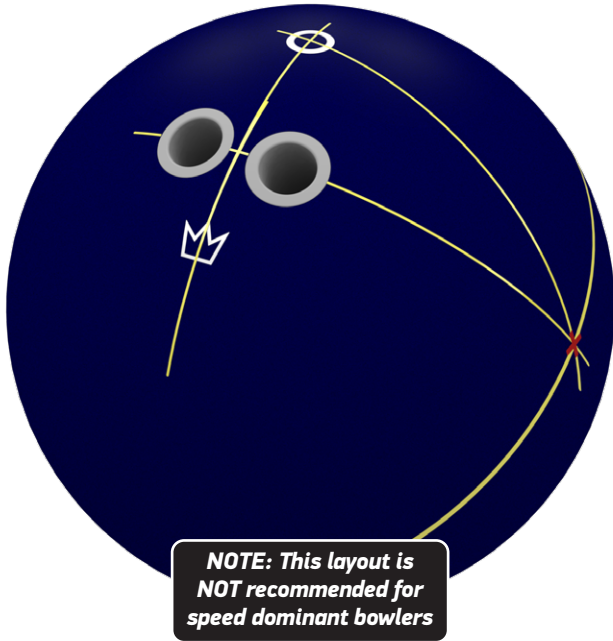
- Great for bowlers whose ball track passes over the gripping holes
- Moves the ball track to pass between the gripping holes, ensuring a consistent ball reaction
- Effective for a wide variety of lane conditions

### *Layout Information*

- Riser pin 3.75" from grip center, 45° from grip line in 7:30 position.
- CG placed towards the grip center.

*Image is for reference only. The layout on your drilled ball may look slightly different.*

# NO-THUMB SYMMETRICAL LAYOUTS



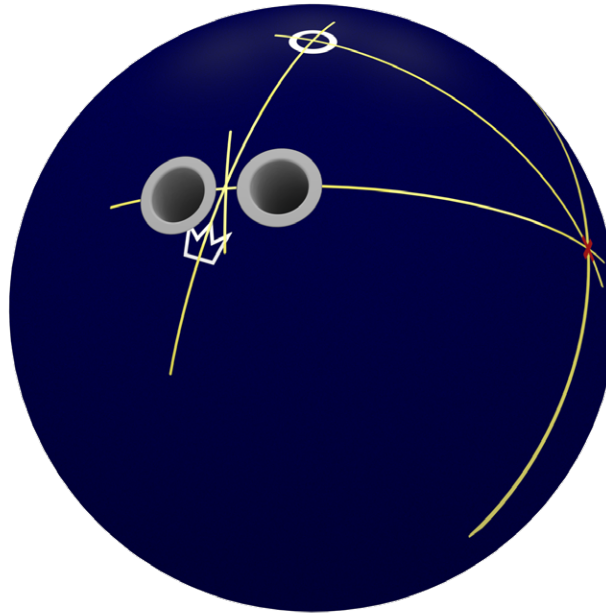
## A Control

### Reaction Characteristics

- Latest revving
- Smoothest response to friction
- Controlled motion with arcing backend

### Recommended Dual Angle Converter Inputs

- 5.25" pin/DOT to PAP
- 2" pin/DOT to CoG



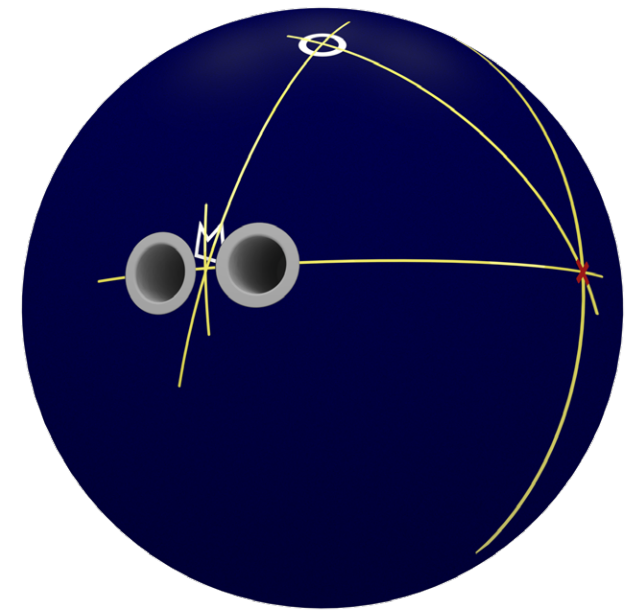
## B Smooth Benchmark

### Reaction Characteristics

- Later revving
- Smooth response to friction
- All-purpose motion with arcing backend

### Recommended Dual Angle Converter Inputs

- 4.5" pin/DOT to PAP
- 2.5" pin/DOT to CoG



## C Strong Benchmark

### Reaction Characteristics

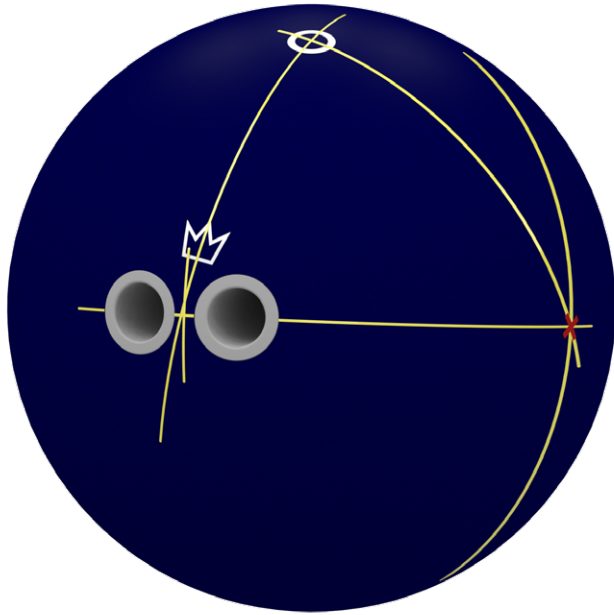
- Earlier revving
- Medium response to friction
- All-purpose motion with strong backend

### Recommended Dual Angle Converter Inputs

- 4.5" pin/DOT to PAP
- 3.5" pin/DOT to CoG

*PAP used for these layouts is 5" over and 0" up or down.  
These images are for reference only. The layout on your drilled ball may look slightly different.*

# NO-THUMB SYMMETRICAL LAYOUTS



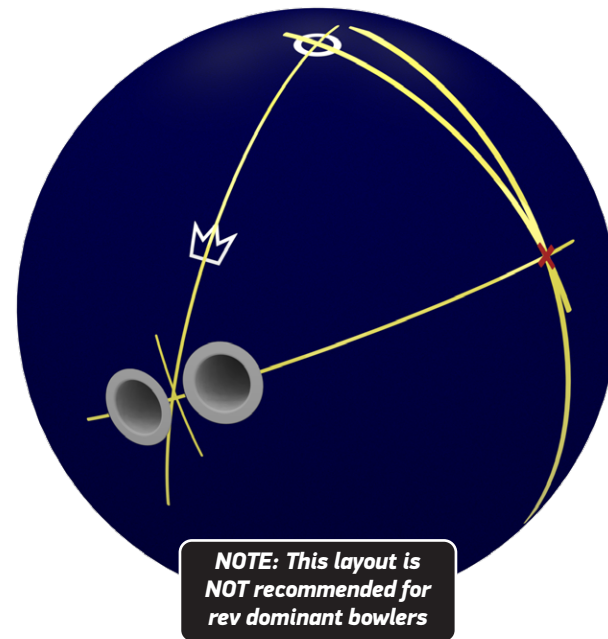
## **D** Sharp Backend

### *Reaction Characteristics*

- Later revving
- Sharp response to friction
- Medium total hook with angular backend

### *Recommended Dual Angle Converter Inputs*

- 5" pin/DOT to PAP
- 4" pin/DOT to CoG



**NOTE: This layout is NOT recommended for rev dominant bowlers**

## **E** Strong Mid-Lane

### *Reaction Characteristics*

- Earliest revving
- Medium response to friction
- Strong total hook with continuous backend

### *Recommended Dual Angle Converter Inputs*

- 4" pin/DOT to PAP
- 5" pin/DOT to CoG

*PAP used for these layouts is 5" over and 0" up or down.*

*These images are for reference only. The layout on your drilled ball may look slightly different.*

# APPENDIX

---

## **ALL NO-THUMB LAYOUTS ONLY**

These layouts use the Pin/DOT to CoG (Center of Grip) distance and Pin/DOT to PAP distance as the defining measurements for the appropriate layout. Use our **Converter** to determine the proper Dual Angle converted layout based on the desired ball reaction. [Click HERE to Download the Converter](#). Alternatively, you can find the converter at <https://dv8bowling.com/products/no-thumb-resources>.

## **CENTER OF GRAVITY DIRECTION**

The center of gravity (CG) should be positioned near the grip center for both thumb-in and no-thumb gripping styles.

## **SPEED AND REV-DOMINANT LAYOUT ADJUSTMENTS**

We recommend the following adjustments to these layouts for certain types of bowlers:

### **Bowlers who are Speed Dominant:**

Move the Pin/DOT .25" closer to PAP, decrease the VAL angle by 5 degrees.

### **Bowlers who are Rev Dominant:**

Move the Pin/DOT .5" further away from PAP, increase the VAL angle by 5 degrees.

**Manufacturer Disclaimer:** 1) These layouts are general recommendations and results are not guaranteed. We recommend working with your local Rewards+ Pro Shop who specializes in tuning the layout of the bowling ball to perfectly match your physical game characteristics. 2) All drilled finger and thumb holes must have at least a moderate bevel and the Riser Pin must be at least one inch from any drilled hole to comply with the Brunswick warranty. The Riser Pin condition does not apply to bowling balls with DOT technology. 3) The images displayed for each layout are for reference only and your ball may not look exactly as the displayed image for your chosen layout does. Positions of the Pin/DOT, CG, and Mass Bias locator pin may vary, depending on the bowler's Positive Axis Point, gripping specs, and box specs of the individual ball. ©2026 Brunswick Bowling Products, LLC. • Form #0724-20