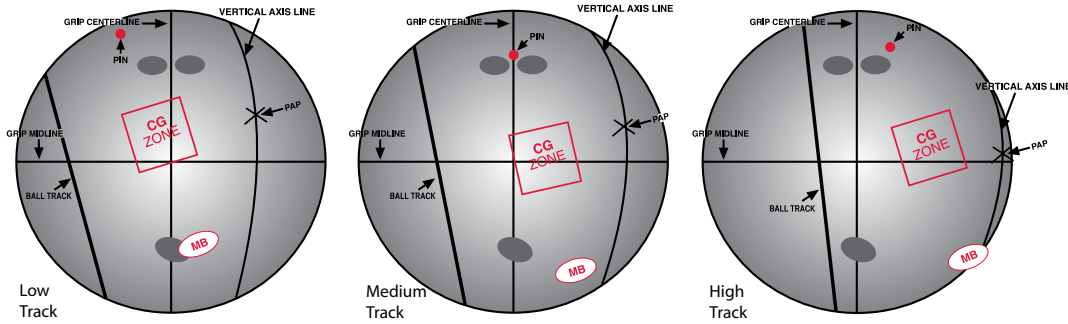


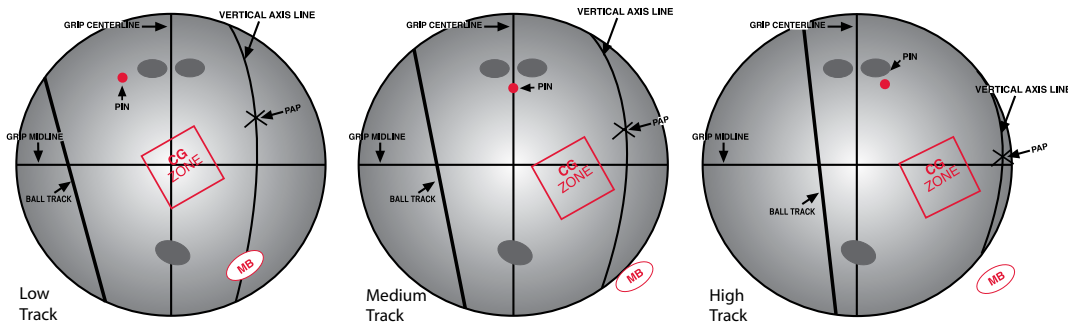


## Asymmetric Core Drilling Instructions



### Drilling #1 - Skid/Flip Layout

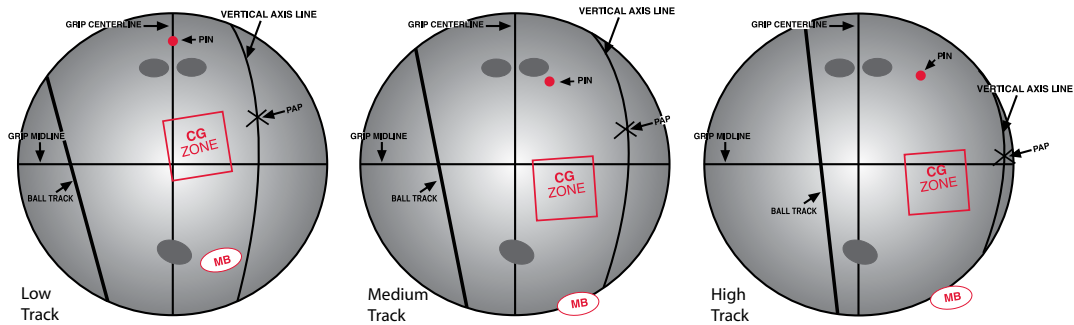
- Ball Motion:** Length with sharp breakpoint and aggressive backend
- Lane Condition:** Medium to Heavy Oil
- Flare Potential:** Medium
- Pin Placement:** Place pin at 5½" from the positive axis point (PAP)
- Mass Bias:** Place mass bias in the strong position
- Balance Hole:** If needed, place balance hole at 4" from the center of span on a line through the center of gravity.



### Drilling #2 - All Purpose Layout

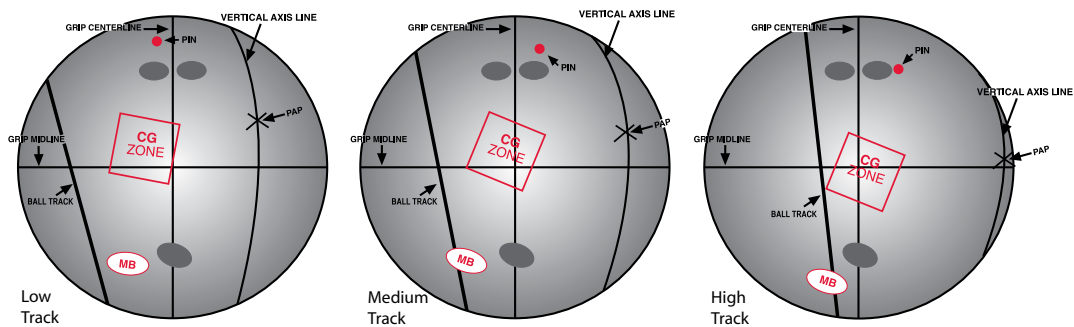
- Ball Motion:** Length with controllable breakpoint
- Lane Condition:** Medium Oil
- Flare Potential:** Medium
- Pin Placement:** Place pin at 5" from the positive axis point (PAP)
- Mass Bias:** Place mass bias near the vertical axis line
- Balance Hole:** If needed, place balance hole at 4" from the center of span on a line through the center of gravity.

Illustrations shown are for Right-Handed Bowlers. Please reverse for Left-Handed Bowlers



**Drilling #3 - Strong Layout**

- Ball Motion:** Strong and controllable hook
- Lane Condition:** Heavy Oil
- Flare Potential:** High
- Pin Placement:** Place pin at 4" from the positive axis point (PAP)
- Mass Bias:** Place mass bias in the strong position
- Balance Hole:** If needed, place balance hole at 4" from the center of span on a line through the center of gravity.



**Drilling #4 - Label Layout (Smooth Arc)**

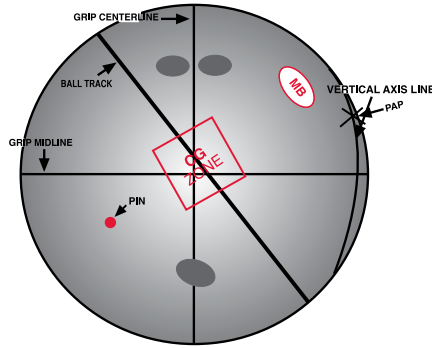
- Ball Motion:** Excellent length with smooth arc
- Lane Condition:** Medium Oil
- Flare Potential:** Medium
- Pin Placement:** Place pin at 4½" from the positive axis point (PAP)
- Mass Bias:** Place mass bias near the ball track
- Balance Hole:** If needed, place balance hole at 4" from the center of span on a line through the center of gravity.

**Illustrations shown are for Right-Handed Bowlers. Please reverse for Left-Handed Bowlers**

## Drilling #5 - Full-Roller Layout

### **Full-Roller Ball Track Only!**

- Ball Motion:** Strong arc  
**Lane Condition:** Medium to Heavy Oil  
**Flare Potential:** High  
**Pin Placement:** Place pin at 3½" from the center of the span located in 7:30 position  
**Mass Bias:** Place mass bias in 2:30 position relative to the center of the span



More information can be obtained by going to [www.columbia300.com](http://www.columbia300.com) and visiting the tech docs section for more details on drilling and technical information.

Thanks for choosing one of the best brands in bowling, and remember we're here when you have questions or need help; our support line is ready with trained professionals to assist you in optimizing your bowling experience. The support line number is 316-209-9035.



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[www.Columbia300.com](http://www.Columbia300.com)

Illustrations shown are for Right-Handed Bowlers. Please reverse for Left-Handed Bowlers