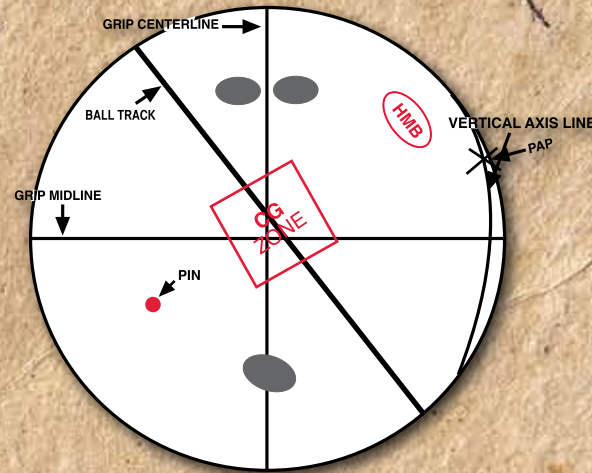


## Drilling #5 - Full-Roller Layout

### **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



For information on advanced layouts, please check out the "TECH SPECS" area on [www.hammerbowling.com](http://www.hammerbowling.com).



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



## **Black Widow**

The Hammer Black Widow series of balls is designed to provide length and aggressive backend reaction for a wide variety of bowling styles. Overall, bowlers can expect to see excellent all-purpose ball motion with more entry angle to the pocket and improved hitting power. The Black Widow series features the High Mass Bias Gas Mask core with added flip block for enhanced drilling versatility.

Since the Black Widow series features a High Mass Bias core, the balls provide excellent drilling versatility by placing the pin and mass bias in different configurations. When drilling a High Mass Bias ball, the placement of the Mass Bias will have a significant impact on changing the breakpoint shape and overall ball motion.

### **Tuning Ball Motion:**

The coverstocks used on the Hammer Black Widow series will provide good length and strong backend reaction. However, it is important to keep in mind that all bowlers have different needs. The Black Widow coverstock can easily be sanded to a rougher grit for stronger hook motion in oil or polished for more length, more aggressive breakpoint and less total hook. Please consult your pro shop operator for additional assistance in tuning ball motion.

### **Ball Care:**

It is imperative to maintain your new Hammer Black Widow by cleaning the coverstock immediately after each bowling session using bowling ball cleaning products designed for reactive balls. Hammer highly recommends POWERHOUSE ENERGIZER BALL CLEANER applied with a micro-fiber towel to remove the dirt and oil from the surface of the ball.

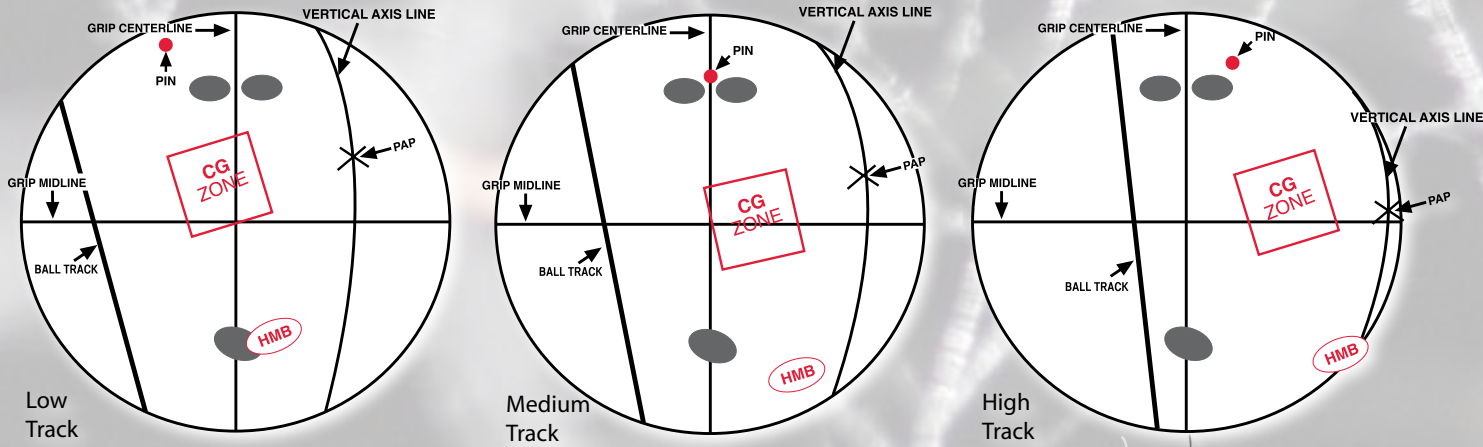


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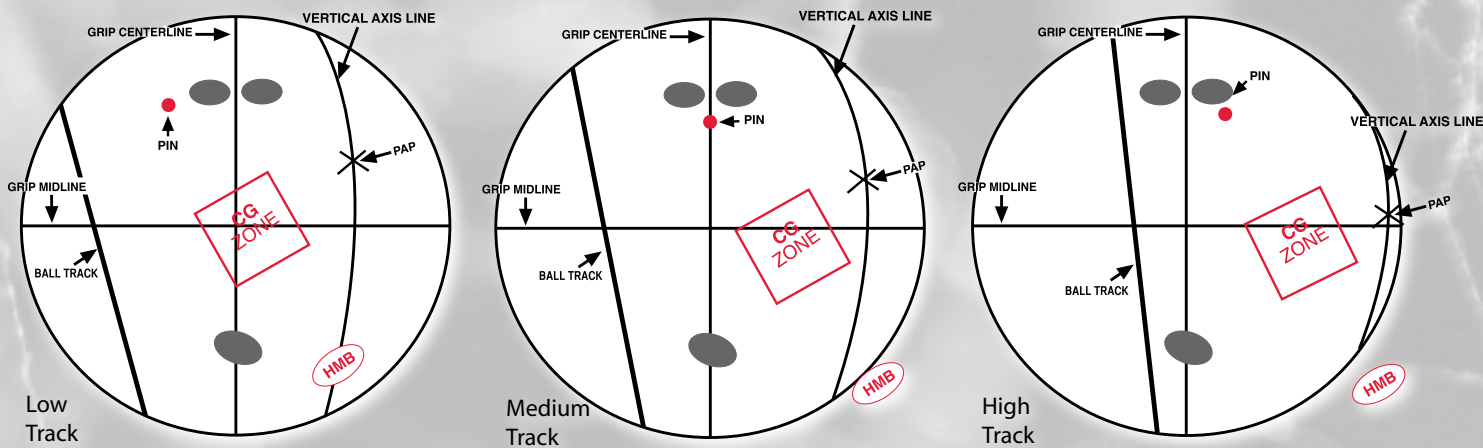
### Drilling #1 - Skid/Flip Layout

- 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.



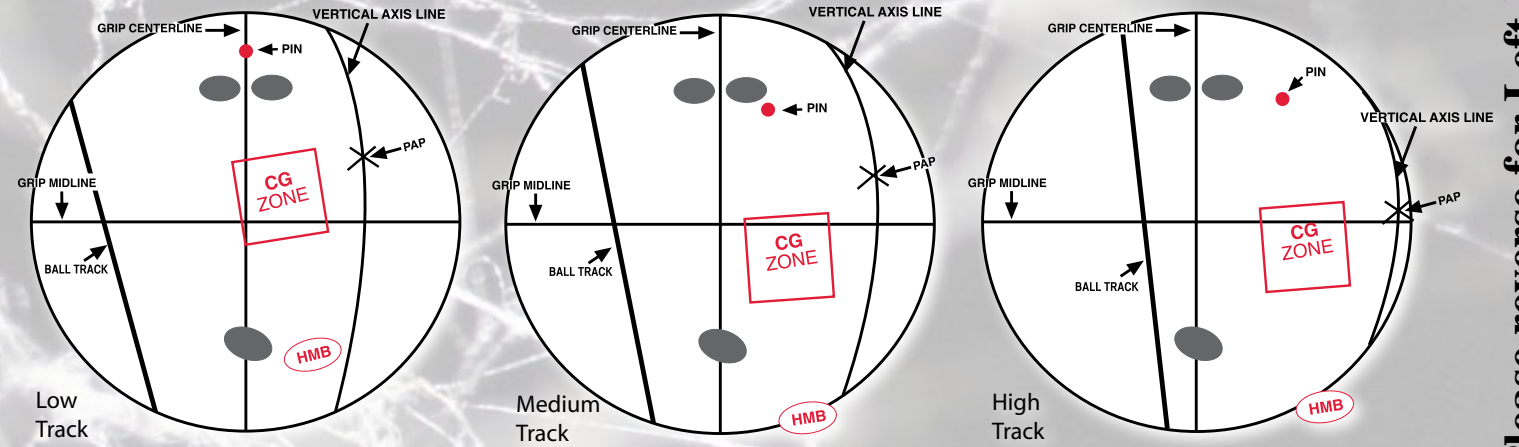
### Drilling #2 - All Purpose Layout

- 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.



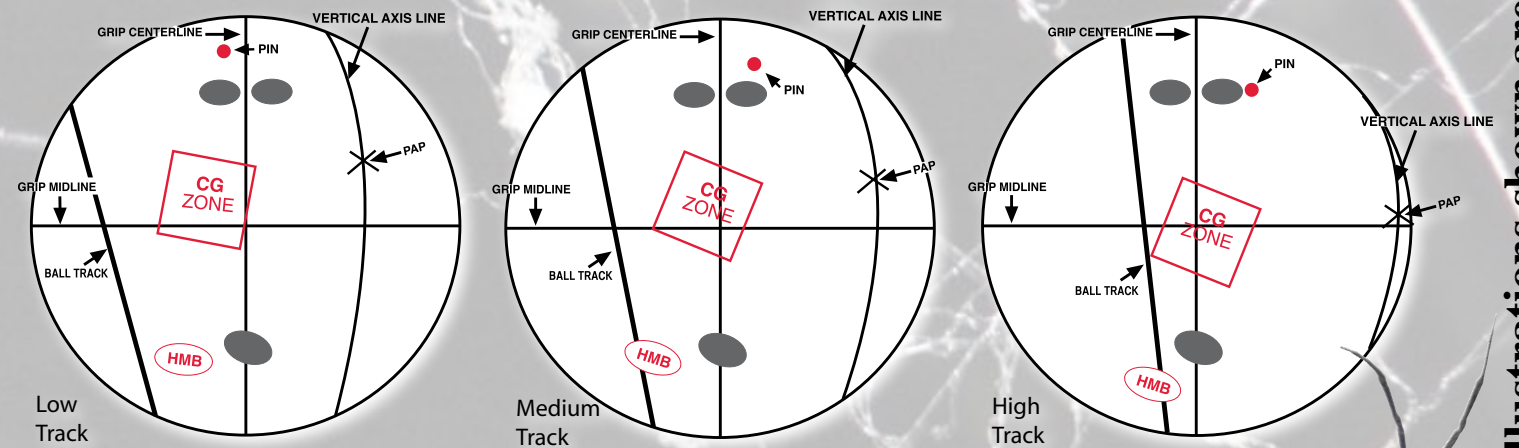
### Drilling #3 - Strong Layout

- 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

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