



Black Widow Venom X-Out Drill Instructions

Thank you for your purchase of a Black Widow Venom X-Out! You may have received an x-out with a mass bias that is not in the conventional position. If this is the case on your ball, please follow the instructions below in order to achieve a ball reaction identical to other Black Widow Venoms, while still keeping your new ball within USBC Static Weight Standards.



Step 1: Place one corner of the quarter scale on the marked mass-bias, and measure 13 1/2" through the pin of the ball.



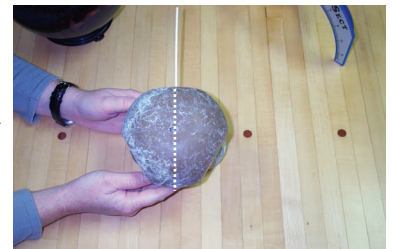
Step 2: Mark the opposite corner of the quarter scale on the surface of the ball at that 13 1/2" measurement.



Step 3: Use this location as the mass bias when laying out your Black Widow Venom with the standard drill instructions (included). This allows you to get a full range of pin and mass bias locations while still keeping the ball within USBC specifications.

Why does this work?

The mass bias marking on a bowling ball is an indicator that shows a plane going all the way through the bowling ball. Our Black Widow Venom core is symmetric in shape down the mass bias plane (shown on right). This means that you can reverse the mass bias marking to the opposite side of the ball, use that location as the mass bias, and end up with identical ball reaction.



Should you have questions, please call Hammer Bowling at 270-881-1249.